

Maryland

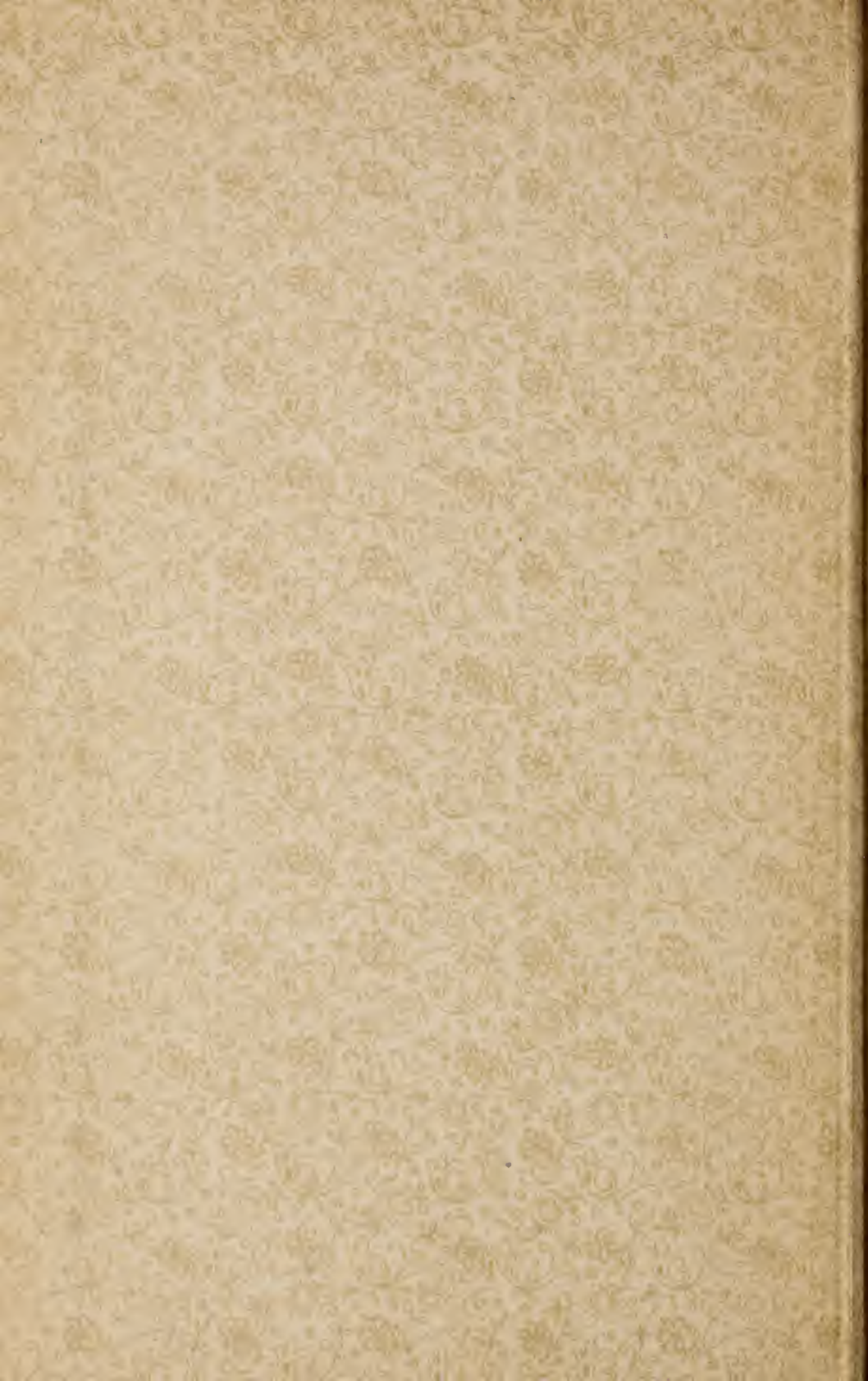
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1898

REPORT
OF THE
BOARD OF FIRE COMMISSIONERS.
1898.







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15TH ANNUAL REPORT,

— OF THE —

Baltimore,

Board of Fire Commissioners.

— AND —

FORTIETH ANNUAL REPORT OF THE FIRE DEPARTMENT,

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.



BALTIMORE :

THOS. J. SHEUBROOKS, CITY PRINTER,
N. E. Cor. Charles and Lombard Sts.

1899.

OFFICERS OF THE FIRE DEPARTMENT.

FIRE COMMISSIONERS:

A. ROSZEL CATHCART, - - - PRESIDENT.
HON. WILLIAM T. MALSTER, *Ex-officio*.
J. C. MULLER. C. M. SHORT.

SECRETARY AND CLERK:

STANLEY BAKER.

ASSISTANT CLERK:

WALTER E. HILL.

CHIEF ENGINEER:

WILLIAM C. McAFEE.

DISTRICT ENGINEERS:

First District, - - - GEORGE W. HORTON.
Second District, - - - AUGUST EMRICH.
Third District, - - - FREDERICK BRANAN.
Fourth District, - - - FIELDING H. LUCAS.
Fifth District, - - - LEVIN H. BURKHARDT.
Sixth District, - - - WILLIAM H. HARTMAN.

SUPERINTENDENT OF MACHINERY:

GEORGE J. LINSENMEYER.

ASSISTANT SUPERINTENDENT OF MACHINERY:

THOMAS G. GRIFFITH.

SUPERINTENDENT OF FIRE ALARM TELEGRAPH:

FRANK G. BOYD.

REPORT.

OFFICE OF
BOARD OF FIRE COMMISSIONERS—CITY HALL,
BALTIMORE, January 1, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: The Board of Fire Commissioners have the honor to submit herewith the Fortieth Annual Report of the Fire Department of the City of Baltimore.

Since the organization of the department, never has it been better equipped for the performance of the arduous duties assigned to it, than at present: the complement of companies necessary to furnish adequate protection to all parts of the city is, however, still far from full.

During the year, the physical condition of the department has been greatly strengthened by the addition of new apparatus, and the improvement of that already in service.

Each succeeding year brings with it greater demands upon the resources of the department, the record of alarms responded to in 1898, being 255 in excess of that for 1897.

While the losses for 1898 show an increase as compared with the preceding year, such increase was not due to any lack of efficiency on the part of the department. The two fires at which the greatest loss occurred, (the car barns of the Consolidated Railway Company, and the tinware factory of Messrs. Keen & Hagerty,) were each located in remote sections of the city, in a vicinity poorly supplied with water, and in each instance, the buildings were doomed before the arrival of the department.

During the year No. 11 Hook and Ladder Truck Company was organized and placed in service. Unfortunately the building to accommodate this company was not erected, and the com-

pany is temporarily located in the quarters of No. 18 Engine Company, on Twenty-first street. In its present location, this truck company fails to afford protection to the territory where it is most needed, and it is earnestly hoped that steps will be taken looking to the immediate erection of quarters for this company, on the lot originally designated.

During the year, three members of the department met their death while in the performance of duty, viz.:

Ladderman Harry Courtney, No. 3 Hook and Ladder Company.

Pipeman James T. Braden, No. 7 Engine Company.

Probationer C. Louis Francke, No. 15 Engine Company.

In accordance with the provisions of the code, the families of each of the members named, received \$1,000—\$500 from the city, and \$500 from the insurance company.

Embodied herein and forming part of this report, will be found the report of the Chief Engineer, covering the work of the department during the year, its present condition and its requirements.

The various recommendations made by the Chief Engineer, and which have been embodied in previous reports, have the hearty endorsement and approval of this Board, as they look to the welfare and protection of the citizens, and it is sincerely hoped that your Honorable Body will give the same most careful consideration.

The report of the Superintendent of Fire-Alarm Telegraph, submitted herewith, sets forth at length the work of that department during the year, improvements made and present condition, to which your attention is respectfully invited.

Exhibits are herewith submitted, showing receipts and disbursements for the year ending December 31, 1898; also, estimate of the financial requirements of the Department for the year 1899.

Respectfully,

A. ROSZEL CATHCART. <i>Pres't.</i> ,	}	<i>Fire Commissioners.</i>
JAMES C. MULLER,		
CHARLES M. SHORT,		

FIRE DEPARTMENT.

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ESTIMATE FOR 1899—CITY.

Salaries.....		\$302,400 00
Apparatus.....	\$ 9,000 00	
Apparatus repairs.....	12,000 00	
Accident.....	5,000 00	
Feed.....	15,000 00	
Fuel.....	5,000 00	
Furniture.....	3,000 00	
Harness.....	1,500 00	
Horseshoeing.....	3,500 00	
Hose.....	10,000 00	
Horses.....	7,500 00	
Gas.....	2,000 00	
Oils, paints, store-room, etc.....	1,500 00	
Office expenses.....	1,500 00	
Wharf rent.....	600 00	
Telephone rental.....	1,000 00	
Miscellaneous.....	2,500 00	
Washing.....	2,600 00	
Insurance of members.....	3,000 00	
Pensioners.....	10,000 00	
Sick.....	2,000 00	
Fire-alarm Telegraph.....	10,000 00	
Fire-alarm boxes.....	9,000 00	
	<hr/>	120,200 00
		<hr/>
		\$122,600 00
		<hr/>

ESTIMATE FOR 1899—ANNEX.

Salaries.....		\$61,300 00
Apparatus.....	\$1,000 00	
Apparatus repairs.....	2,000 00	
Accident.....	500 00	
Feed.....	5,000 00	
Fuel.....	1,500 00	
Furniture.....	700 00	
Harness.....	750 00	
Horseshoeing.....	1,200 00	
Hose.....	1,000 00	
Horses.....	4,000 00	
Gas.....	500 00	
Oils, paints, store-room, etc.....	1,000 00	
Telephone rental.....	55 00	
Miscellaneous.....	500 00	
Washing.....	600 00	
Insurance of members.....	500 00	
Pensioners.....	400 00	
Sick.....	500 00	
Fire-alarm Telegraph.....	1,000 00	
Fire-alarm boxes.....	1,250 00	
	<hr/>	\$23,955 00
Unexpended balance for equipping No. 11 Hook and Ladder Company.....	6,000 00	
	<hr/>	\$29,955 00
		<hr/>
		\$94,255 00
		<hr/>

APPROPRIATIONS.—CITY.

Amount appropriated by the Mayor and City Council out of General Levy for 1898.....	\$406,300 00	
Amount appropriated by the Mayor and City Council—Special.....	175 00	
	<hr/>	\$406,475 00
Amount drawn from City Comptroller....		406,180 69
		<hr/>
Balance undrawn.....		\$294 31
		<hr/> <hr/>

SPECIAL APPROPRIATION.

Amount appropriated to erect fire-alarm box.	\$175 00	
Amount drawn from City Comptroller....	144 62	
	<hr/>	
Balance undrawn.....		\$30 38
		<hr/> <hr/>

GENERAL STATEMENT.

Amount drawn from City Comptroller account "General Appropriation".....	\$406,036 07	
Amount drawn from City Comptroller account "Special Appropriation".....	144 62	
Amount received from sale of manure and old material	485 32	
	<hr/>	\$406,666 01
Expenditures, account department....	\$406,180 69	
Amount paid to City Register.....	485 32	
	<hr/>	\$406,666 01
		<hr/> <hr/>

EXPENDITURES—CITY.

Salaries.....		\$286,281 81
Apparatus.....	\$11,001 90	
Apparatus repairs.....	14,081 11	
Accident.....	5,275 44	
Feed.....	10,969 38	
Fuel.....	3,849 60	
Furniture.....	1,780 30	
Harness.....	1,124 64	
Horseshoeing.....	3,393 80	
Hose.....	2,070 00	
Horses.....	7,460 00	
Gas.....	1,684 77	
Oils, paints, store-room, etc.....	3,604 63	
Office expenses.....	866 30	
Wharf rent.....	600 00	
Telephone rental.....	979 44	
Miscellaneous.....	4,485 36	
Washing.....	2,571 12	
Insurance of members.....	2,053 12	
Pensioners.....	9,253 67	
Sick.....	2,418 73	
Fire-alarm Telegraph.....	30,230 95	
	\$119,754 26	
Special Appropriation "Fire-Alarm Box"...	144 62	119,898 88
		<u>\$406,180 69</u>

COMPANY EXPENDITURES—CITY.

No.	1	Engine	Company.....	\$11,511	54
"	2	"	"	12,898	25
"	3	"	"	12,152	87
"	4	"	"	12,752	24
"	5	"	"	11,305	38
"	6	"	"	12,235	21
"	7	"	"	13,997	42
"	8	"	"	11,013	39
"	9	"	"	15,182	02
"	10	"	"	11,655	81
"	11	"	"	11,129	50
"	12	"	"	11,258	12
"	13	"	"	12,406	41
"	14	"	"	11,048	50
"	15	"	"	23,002	81
"	16	"	"	14,919	57
"	17	"	"	12,319	70
"	19	"	"	11,677	38
"	1	Hook and Ladder	Company.....	11,349	36
"	2	"	"	11,754	02
"	3	"	"	12,441	07
"	4	"	"	12,426	38
"	5	"	"	11,643	84
"	6	"	"	12,368	43
"	10	"	"	12,444	64
Officers' salaries and expenses.....				22,301	38
Probationary Firemen.....				10,825	45
Office expenses.....				869	71
Pensioners				9,250	67
Fire-alarm Telegraph				30,687	10
Reserve.....				8,231	44
Miscellaneous.....				2,676	71
Store-room.....				4,299	75
Fire Alarm Box.....					
				\$406,036 07	
				144 62	
				\$406,180 69	

FIRE DEPARTMENT.

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FINANCIAL STATEMENT OF THE FIRE DEPARTMENT FOR TWELVE MONTHS ENDING DEC. 31, 1898.

Dr.		Cr.	
January, drawn from City Comptroller..	\$32,423 11	January, expenditures.....	\$32,423 11
February, " " "	" "	February, " " "	30,988 31
March, " " "	" "	March, " " "	32,090 29
April, " " "	" "	April, " " "	31,561 48
May, " " "	" "	May, " " "	31,379 84
June, " " "	" "	June, " " "	31,339 97
July, " " "	" "	July, " " "	34,195 82
August, " " "	" "	August, " " "	30,412 30
September, " " "	" "	September, " " "	40,245 08
October, " " "	" "	October, " " "	32,500 92
November, " " "	" "	November, " " "	36,883 97
December, " " "	" "	December, " " "	42,159 60
			\$406,180 69

APPROPRIATIONS—ANNEX.

Amount appropriated by the Mayor and City Council out of general levy for 1897.	\$69,900 00	
Amount appropriated by the Mayor and City Council, "special".....	27,900 00	
	<hr/>	\$97,800 00
Amount drawn from City Comptroller...		91,414 00
Balance undrawn.....		<hr/> \$6,386 00 <hr/>

SPECIAL APPROPRIATIONS.

Amount appropriated to equip No. 21 Engine Company and place in service..	\$14,400 00	
Amount drawn from City Comptroller...	14,126 32	
	<hr/>	\$273 68
Amount appropriated to equip No. 11 Hook and Ladder Company and place in service.....	\$13,500 00	
Amount drawn from City Comptroller...	7,468 51	
	<hr/>	\$6,031 49
Balance undrawn.....		<hr/>

GENERAL STATEMENT.

Amount drawn from City Comptroller, account "General Appropriation	\$69,819 17	
Amount drawn from City Comptroller, account "Special Appropriation".....	\$21,594 83	
	<hr/>	\$91,414 00
Expenditures account department.....		91,414 00
		<hr/>

EXPENDITURES—ANNEX.

Salaries.....		\$53,888 03
Apparatus.....	\$5,674 10	
Apparatus repairs.....	1,317 01	
Accident.....	184 29	
Feed.....	2,608 31	
Fuel.....	531 44	
Furniture.....	186 60	
Harness.....	269 23	
Horseshoeing.....	630 50	
Horses.....	455 00	
Gas.....	282 80	
Oil, paints, store-room, etc.....	846 15	
Insurance of members.....	333 98	
Miscellaneous.....	667 42	
Washing.....	364 50	
Sick.....	599 91	
Fire-alarm Telegraph.....	944 90	
Telephone rental.....	35 00	
	<hr/>	15,931 14
		<hr/>
Equipping No. 21 Engine Co.....		\$69,819 17
“ No. 11 Hook and Ladder Co.....		14,126 32
		<hr/>
		7,468 51
		<hr/>
		\$91,414 00
		<hr/>

COMPANY EXPENDITURES—ANNEX.

No. 1	Chemical Company	\$ 3,188 35	
" 2	" "	2,928 17	
" 3	" "	3,231 40	
" 4	" "	3,144 60	
" 5	" "	3,339 39	
" 6	" "	2,960 02	
" 7	" "	3,956 07	
" 18	Engine	12,565 80	
" 20	" "	12,008 44	
" 7	Hook and Ladder Company	805 38	
" 8	" " " "	805 42	
" 9	" " " "	935 35	
Officers' salaries and expenses		1,707 01	
Fire-alarm Telegraph		979 90	
Reserve		5,616 83	
Store-room		909 49	
Miscellaneous		141 28	
			\$59,222 90
No. 21 Engine Company, special appropriation			24,722 59
No. 11 Hook and Ladder Company, special appropriation			7,468 51
			<u>\$91,414 00</u>

FIRE DEPARTMENT.

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FINANCIAL STATEMENT OF THE FIRE DEPARTMENT, ANNEX, FOR TWELVE MONTHS ENDING
DECEMBER 31, 1898.

Dr.		Cr.	
January, drawn from City Comptroller...	\$10,892 63	January, expenditures.....	\$10,892 63
February, " " "	"	February, " " "	5,902 67
March, " " "	"	March, " " "	9,669 09
April, " " "	"	April, " " "	5,217 86
May, " " "	"	May, " " "	6,639 50
June, " " "	"	June, " " "	6,761 45
July, " " "	"	July, " " "	5,816 44
August, " " "	"	August, " " "	5,976 62
September, " " "	"	September, " " "	8,927 99
October, " " "	"	October, " " "	5,716 57
November, " " "	"	November, " " "	13,294 41
December, " " "	"	December, " " "	6,578 77
	\$91,414 00		\$91,414 00

RECAPITULATION.

Account.	Appropriation.	Expenditures.	Balance.
City Department.	\$406,300 00	\$406,036 07	\$263 93
Special, fire-alarm box....	175 00	144 62	30 38
	\$406,475 00	\$406,180 69	\$294 31
Annex Department.	69,900 00	69,819 17	80 83
Special, No. 21 Engine Co.	14,400 00	14,126 32	273 68
Special, No. 11 Hook and Ladder Company.....	13,500 00	7,468 51	6,031 49
	\$504,275 00	\$497,594 69	\$6,680 03
Old material.....	.....	.....	485 32
			\$7,165 63

REPORT
OF THE
CHIEF ENGINEER.

REPORT.

OFFICE OF THE CHIEF ENGINEER,
BALTIMORE, January 1, 1899.

To the Honorable Board of Fire Commissioners:

GENTLEMEN: I respectfully submit herewith my third annual report, it being the Fortieth Annual Report of the Paid Fire Department.

FIRES.

During the year 1898 the department received and responded to 1,373 alarms of fire, 920 of which were received from street and automatic boxes, and 445 verbally, or by telephone, showing an increase of 105 box alarms, and 150 silent alarms, as compared with the record for 1897.

Of the alarms received as above noted, 75 of the box alarms, or nearly nine per cent., were false. Of the remaining number of alarms, box and silent, 1,094 were for fires in brick or stone buildings, 145 were for fires in wooden buildings, and 59 were for other than building fires, such as rubbish on lots, brush, hay stacks, vessels, etc. At but 41 fires was the adjoining property damaged, and in these cases but to little comparative extent.

The total loss for the year, approximating November and December losses, was \$878,592.46, the insured value of the property involved being \$4,885,792.60. A large percentage of the loss for the year is accounted for by the fire which destroyed the car-barn of the Consolidated Railway Company, located at Irvington, together with its contents of 130 cars and a large stock of paints, oils, etc., on May 29, the adjusted loss at which fire was \$254,783.76. This building was located at the extreme western boundary of the city, several miles from the nearest steamer com-

pany, in a section of the city supplied with water by a private corporation, which supply of water was, on this occasion, entirely inadequate to the needs of a fire of this magnitude. By the time of the arrival of the first company, the entire building and contents were hopelessly involved, and the efforts of the department were confined principally to preventing the spread of the flames to the property adjoining on the east.

APPARATUS.

All of the apparatus in service is in good condition. Particular attention has been paid by those charged with this duty to maintaining the equipment in the highest possible state of efficiency and safety, and it is a matter of exceeding gratification to note that their efforts in this direction have been well applied.

The work of equipping the hose wagons of the department with chemical tanks has been completed, and all of the wagons are now of the combination type.

Engine No. 9 was rebuilt by the La France Fire Engine Company, being supplied with a new boiler and platform springs, the pumps and machinery overhauled and placed in good condition, and the engine painted.

A new second-size steamer, built by the La France Fire Engine Company, was received and placed in service with No. 7 Engine Company. The engine formerly assigned to this company was assigned to No. 5 Engine Company, and former No. 5 engine assigned to No. 21 Engine Company.

A new first size engine, built by the La France Fire Engine Co., was received and placed in service with No. 1 Engine Company; the engine formerly assigned to No. 1 Engine Company was assigned to No. 13 Engine Company, and former No. 13 (rotary) placed in reserve.

A new first size Hayes Hook and Ladder Truck, was received and placed in service with No. 4 Hook and Ladder Company, and former Truck No. 4, assigned to No. 11 Hook and Ladder Company.

A new Hale Water Tower, built by the Fire Extinguisher Manufacturing Company, was received and placed in service with

No. 15 Engine Company, replacing the tower which had been in service continuously since 1891, which, after being thoroughly repaired and painted, will be placed in reserve, where it will be available for service should the occasion permit the use of two towers.

A new combination truck, (chemical engine and hook and ladder truck,) built by C. T. Holloway & Co., was received and placed in service with No. 7 Chemical Engine Company.

HORSES.

The total number of horses in service and in reserve is 181. During the year 52 were purchased, 44 were condemned as unfit for further service, and three died. The total number of cases of sickness and injury treated at the hospital was 143.

NEW COMPANY.

On October 8, 1898, No. 11 Hook and Ladder Company was organized and placed in service, pending the erection of permanent quarters, in quarters of No. 18 Engine Company, necessitating the transfer of No. 3 Chemical Engine Company, which formerly occupied a portion of these quarters, to quarters of No. 20 Engine Company.

NEW MEMBER.

On June 1, the position of Assistant Superintendent of Machinery was, by act of the Mayor and City Council, created, and Mr. Thomas G. Griffith was, by the Board, appointed to fill the position.

FIRE-PLUGS.

The number of plugs in service has been increased to 2,113 by the erection, by the Water Department, during the past year, of 149 plugs. This number is still insufficient, and I beg to suggest that the Water Department be requested to proceed with the work of erecting additional plugs as rapidly as possible. The recommendation made in my report of last year in regard to a pipe-line to be used by the fire-boat should receive early consideration. The system proposed is not in the nature of an experiment, similar system being in successful operation in other cities.

RECOMMENDATIONS.

Under this head, I beg to again call your attention to the urgent necessity for the adoption of the recommendations made in previous reports, which have not been acted upon, as follows, viz.:

An engine company to be placed in service in the vicinity of Caroline and Lancaster streets.

An engine company to be placed in service in the vicinity of Cheasapeake and Hudson streets.

An engine company to be placed in service in the vicinity of Pratt and Carey streets.

An engine company to be placed in service in the vicinity of York road and Gorsuch avenue, Waverly. The abolishment of No. 4 Chemical Engine Company, and the transfer of members of this company to No. 7 Hook and Ladder Company.

The addition of one member to each of the following companies, viz.: Engine Companies Nos. 1, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, Hook and Ladder Companies Nos. 1 and 2, Chemical Engine Companies Nos. 1, 2, 3, 5 6, and three members to No. 8 Hook and Ladder Company.

The erection in all of the public schools of a fire-alarm box.

The compulsory provision of portable fire-escapes in each room of all hotels, boarding-houses and lodging-houses.

The enactment of legislation that will prevent the overcrowding of theatres, concert halls, and other places of public gathering; the compulsory erection in all buildings of this description of a fire-alarm box, and the installation of such fire extinguishing appliances as this department may direct, to be under the supervision and control of the department during the time audiences are assembled.

In addition to the above recommendations, I beg to call your attention to the urgent and immediate desirability of providing permanent quarters for No. 11 Hook and Ladder Company, on or near the site originally selected, that is to say, on North avenue, near the west approach to North avenue bridge. This company is at present quartered with No. 18 Engine Company in a building much too small and unadapted to the purposes of an engine and truck company. The sleeping room is crowded to such an extent

that the movements of the men are greatly impeded when responding to alarms of fire, to say nothing of the discomfort and menace to health, occasioned by such a large number of men being compelled to sleep in a room of the size of that occupied by these companies. The same conditions obtain on the apparatus floor. The members of No. 18 Engine Company, and No. 11 Hook and Ladder Company, are compelled, by reason of lack of space, to utilize as a sitting-room the space formerly occupied as a horse-stall, while horses and apparatus are so located as to greatly increase the liability to accident.

There is, however, a more important reason for the erection of the desired quarters, in the fact that this truck company, which is distinctively a life-saving corps, does not furnish adequate protection to a large and densely populated section of the city, which protection could be afforded if the company was suitably located.

APPARATUS IN SERVICE.

Twenty-one steam fire engines, 6 chemical engines, 8 Hayes' aerial trucks, 1 combination truck, 2 bank ladder trucks, 21 combination wagons, 19 hose carriages, 1 fire-boat, 1 water tower, 7 Concord wagons, (used by officers,) 2 wagons for use of Superintendent and Assistant Superintendent of Machinery, 1 supply wagon, 3 wagons for use of linemen, 1 large wagon for use of Fire-alarm Telegraph Department, and 3 carriages for use of Commissioners, and Superintendent of Fire-alarm Telegraph.

APPARATUS IN RESERVE.

Seven steam fire engines, 3 Hayes' aerial trucks, 1 water tower, 1 bank ladder truck, 1 combination wagon, 4 Concord wagons, 3 chemical engines, 2 hose carriages, and 1 truck for moving disabled apparatus.

DEATHS.

The past year has been a most disastrous one in regard to loss of life, it being my sad duty to report the death of three members of the uniformed force, who lost their lives in the discharge of their duty.

Ladderman Harry Courtney, No. 3 Hook and Ladder Company, was killed by falling from a ladder while drilling in front of quarters

on June 9. Ladderman Courtney was 39 years of age, and had been a member of the department two years and two months.

Pipeman James T. Braden, No. 7 Engine Company, was so seriously injured in a collision between the hose wagon of No. 7 Engine Company, which he was driving, and the steamer of No. 13 Engine Company, by being thrown from the seat while responding to box No. 327, on July 19, that he died within twelve hours after being injured. Pipeman Braden was 30 years of age, and had been a member of the department four years and nine months.

Probationary Fireman Charles L. Francke was instantly killed on August 27 by being run over by No. 10 steamer, which he was assisting to draw through the streets of Laurel, Md. Engine Company No. 10 had been ordered to Laurel in response to an appeal for assistance from the Mayor of that city. It being impossible to disembark the horses from the cars, the members of the department present, assisted by citizens, were compelled to draw the hose wagon and steamer to the desired location. While engaged in this work Probationary Francke, who was stationed at the pole of the engine, stumbled and fell, the left front wheel of the steamer passing over his head, causing instant death. Probationer Francke was 29 years of age, and had been a member of the department but one month and fourteen days.

Embodied herein are tables of statistical information relative to the work performed by the department, roster of the department, causes of fires, etc., which are respectfully submitted for your information.

In conclusion, I desire to thank the Board for the uniform kindness and courtesy extended at all times, and the officers and members of the uniformed force for a full and conscientious performance of every duty.

I have also to thank the officers and members of the Fire Insurance Salvage Corps, for assistance rendered and for statements of losses and insurance, which form a part of this report.

Thanks are also due the Police Department for its continued co-operation on all occasions,

Respectfully submitted.

WILLIAM C. MCAFEE, *Chief Engineer.*

COMPARATIVE FIRE DEPARTMENT STATISTICS.

City.	Area Sq. Miles.	Population.	Engine Companies.	Hook and Ladder Companies.	Chemical Engine Companies.	(Combination Engine and Hose Wagon.	Water Towers.	Fire-boats.	Members.	Fire-plugs.	Fire-cisterns.	Fire-alarm Boxes.	Status as to Population.	Status as to Fire Department.
New York.....	.....	3,204,360	131	39	39	.....	4	9	2,212	19,000	.....	2,150	1	1
Chicago.....	187 $\frac{1}{4}$	1,851,588	81	27	27	.....	2	4	1,113	18,133	100	1,297	2	2
Philadelphia.....	129 $\frac{3}{4}$	1,500,000	46	9	5	32	1	1	736	11,600	.....	982	3	4
St. Louis.....	62	635,000	38	12	1	.....	2	.....	501	6,200	.....	929	4	5
Baltimore.....	32 $\frac{1}{2}$	505,000	20	11	6	21	1	1	397	2,113	.....	410	5	10
Boston.....	37	500,000	43	17	12	3	2	2	850	7,000	200	610	6	3
Buffalo.....	42	400,000	26	9	6	.....	1	2	450	4,000	15	435	7	7
Cleveland.....	32	380,000	26	9	3	.....	1	2	390	6,000	40	355	8	8
San Francisco.....	42	375,000	31	7	6	1	.....	.....	568	3,528	26	267	9	6
Cincinnati.....	37 $\frac{1}{2}$	372,000	28	13	.....	.....	1	.....	340	2,551	303	445	10	12
Detroit.....	30	300,000	22	10	3	.....	1	1	388	3,397	587	426	11	9
New Orleans.....	46	300,000	27	8	12	.....	1	.....	302	1,757	211	367	12	14
Pittsburg.....	28 $\frac{1}{2}$	291,000	28	7	2	.....	.....	.....	371	2,284	.....	466	13	11
Milwaukee.....	23	285,000	20	8	8	.....	1	3	336	2,350	158	358	14	13
Washington.....	73	280,000	14	4	2	.....	.....	.....	217	1,832	3	271	15	17
Louisville.....	22	220,000	17	5	.....	.....	.....	.....	189	161	680	277	16	15
Columbus.....	16 $\frac{1}{4}$	140,000	13	5	1	.....	1	.....	154	1,300	51	138	17	16

DESCRIPTION OF ENGINES.

ENGINES.	BUILT BY	WHEN BUILT.	REBUILT BY	WHEN REBUILT.	SIZE.	CYLIN- DERS.		PUMPS.		BOIL- ERS.	GALLONS PER MINUTE.	WEIGHT AS DRAWN TO	STYLE OF ENGINE.
						Diam.	Stroke.	Diam.	Stroke.				
No. 1	La France Co.	1898			1st	8½	9	5½	9	36	66	1,000	Vertical, crane-neck, piston double.
" 2	La France Co.	1889			1st	8½	8	5	8	33	60	900	" "
" 3	Ives & Bro.	1874	La France Co.	1892	1st	8½	10	5	10	38	64	1,000	" "
" 4	La France Co.	1892			1st	8½	9	5	9	36	60	900	" "
" 5	La France Co.	1891			3d	7½	8	4½	8	30	60	600	" "
" 6	La France Co.	1890			2d	8½	8	4½	8	32	60	700	" "
" 7	La France Co.	1898			2d	8	9	4	9	33	62	700	" "
" 8	La France Co.	1888			3d	8½	6	4½	6	30	60	600	" "
" 9	La France Co.	1886	La France Co.	1898	3d	7½	8	4½	8	30	65	650	" "
" 10	Clapp & Jones	1886	La France Co.	1897	2d	7½	7	4½	7	32	60	700	" "
" 11	La France Co.	1889			2d	8½	8	4½	8	34	60	750	" "
" 12	La France Co.	1894			2d	8½	8	4½	8	33	62	750	" "
" 13	La France Co.	1893			2d	8½	8	4½	8	33	62	750	" "
" 14	Clapp & Jones	1888			3d	7	7	4½	7	32	60	600	" "
" 15	Clapp & Jones	1891			1st	9½	8	5½	8	38	62	1,000	" "
* " 16	Hull—Brusstar Bros. Pump—Thos. Manning Engine—E. J. Codd Co.	1891	J. E. Woodall & Co.	1897	....	16	10	9	10	....	....	4,400	Double vertical pumps.
" 17	La France Co.	1895			2d	8½	8	4½	8	33	62	750	Vertical, crane-neck, piston double.
" 18	La France Co.	1893			3d	7½	8	4½	8	32	60	600	" "
" 19	La France Co.	1895			3d	7½	8	4½	8	32	60	600	" "
" 20	La France Co.	1897			3d	7½	8	4½	8	30	60	650	" "
" 21	Clapp & Jones	1885			3d	6½	7	3½	7	32	60	500	Horizontal, half crane-neck, piston double.

* Fire-boat.

DESCRIPTION OF ENGINES—Continued.

ENGINES.	BUILT BY	WHEN BUILT.	REBUILT BY		WHEN REBUILT.	SIZE.	CYLIN- DERS.		PUMPS		BOIL- ERS.		(GALLONS PER MINUTE.	WEIGHT AS DRAWN TO FIRES.	STYLE OF ENGINE.
+ A	Ives Bros.	1872	La France Co.	1885	3d		10	12	54	12	34	62	500	7,800	Single horizontal, straight frame.
+ B	Poole & Hunt	1860	Clapp & Jones	1884	3d		10	12	5	12	32	60	400	7,500	Single vertical, " "
+ C	Ives Bros.	1876			3d		10	12	5	12	30	62	400	7,500	Single horizontal, " "
+ D	Ives Bros.	1874	Clapp & Jones	1884	3d		7	7	34	7	32	60	500	7,000	Double " " "
+ E	Ives Bros.	1877			3d		10	12	5	12	32	60	400	7,500	Single " " "
+ F	Ives Bros.	1875	La France Co.	1883	1st		8	10	44	10	38	62	900	9,400	Double vertical, crane-neck, piston.
+ G	Silsby Manufacturing Co	1887			3d		Rotary	Rotary pump.	34	60			600	6,700	Rotary, crane-neck.

+Reserve.

HOSE.

COMPANIES.	Fabric Hose Received.		Fabric Hose Required.		Fabric Hose in Service.		Fabric Hose (Condemned.		Gum Hose in Service.		Gum Hose (Condemned.		Chemical Hose Received.		Chemical Hose Required.		Chemical Hose in Service.		Chemical Hose (Condemned.	
	No.	1 Engine Co.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
	No. 1	Engine Co.	400	3,550	300	50	300	300	50	300	300	300	200-1½ in.	200	50	200	200	175-1½ in.	200	200
	2	"	500	3,250	350		350	350					200	100	100	150			150	
	3	"	500	2,900	150		150	150					250	50	50	200			200	
	4	"	300	3,400									200	100	100	225			225	
	5	"	500	2,850	250		250	250					200	50	50	200			200	
	6	"	400	3,100									200	50	50	200			200	
	7	"	500	2,650	175		175	175					100	100	100	200			200	
	8	"	400	3,900	50		50	50					200	100	100	200			200	
	9	"	300	3,200	100		100	100					200	50	50	200			200	
	10	"		3,900	50		50	50					200	50	50	200			200	
	11	"	500	1,200					650	300	300	300	200	50	50	200			200	
	12	"	1,200	1,250					2,000	1,000	1,000	1,000	200	50	50	200			200	
	13	"	300	3,450	200		200	200					200	50	50	200			200	
	14	"	600	3,300	450		450	450					200	50	50	200			200	
	15	"	500-2½ in. 300-3 in.	{ 2,200-2½ in. 1,400-3 in.	500		500	500					200	100	100	200			200	
	16	"		1,450					350-3 in.	100	100	100	200-1½ in.	200				175-1½ in.	200	
	17	"	500	300					2,800	100	100	100	200							
	18	"	500	3,300	100		100	100					250						250	
	19	"		3,500									200						200	
	20	"		3,000															50	200
	21	"	500	2,950									250						50	250

COMPANIES.

HOSE.

Chemical Companies.					New Hose Received.	New Hose Required.	Hose in Service.	Hose Condemned.
					Feet.	Feet.	Feet.	Feet.
No. 1 Chemical Engine Company.....							300	.....
" 2	"	"	"	.....			250	50
" 3	"	"	"	.....			450	.....
" 4	"	"	"	.....			400	.....
" 5	"	"	"	.....		100	250	50
" 6	"	"	"	.....			300	.....
" 7	"	"	"	...	250	.....	250	.....

MANUAL FORCE OF THE DEPARTMENT.

OFFICERS.

OFFICERS.	
Chief Engineer.....	1
District Engineers.....	6
Superintendent of Machinery.....	1
Assistant Superintendent of Machinery.....	1
	<hr/> 9

ENGINE COMPANIES.

No.	1	Engine Company.		
"	2	"	"	11
"	3	"	"	12
"	4	"	"	11
"	5	"	"	12
"	6	"	"	11
"	7	"	"	12
"	8	"	"	11
"	9	"	"	11
"	10	"	"	11
"	11	"	"	11
"	12	"	"	11
"	13	"	"	11
"	14	"	"	11
"	15	"	"	20
"	16	"	"	12
"	17	"	"	12
"	18	"	"	12
"	19	"	"	12
"	20	"	"	12
"	21	"	"	12

CHEMICAL ENGINE COMPANIES.

CHEMICAL ENGINE COMPANIES.			
No.	1	Chemical Engine Company	3
"	2	" "	3
"	3	" "	3
"	4	" "	3
"	5	" "	3
"	6	" "	3
"	7	" "	4

HOOK AND LADDER COMPANIES.

No.	1	Hook and Ladder Company	11
"	2	" " " "	11
"	3	" " " "	12
"	4	" " " "	12
"	5	" " " "	12
"	6	" " " "	12
"	7	" " " "	1
"	8	" " " "	1
"	9	" " " "	1
"	10	" " " "	12
"	11	" " " "	12

Probationary firemen.....	97
Total active membership of the department.....	397
Disabled members pensioned.....	25
Total membership.....	422

PENSION ROLL.

<i>Name.</i>	<i>Position at Time of Retirement.</i>	<i>Amount of Annual Pension.</i>
D. H. Macauley	Captain	\$550 00
J. F. Peerce	Hostler	450 00
W. G. Miller	Captain	400 00
J. R. Battee	Callman	400 00
G. H. Little	Pipeman	400 00
John Wernsing	Hostler	400 00
William Gordon	Callman	400 00
G. W. Ellender	District Engineer	400 00
W. M. Dunn	District Engineer	400 00
H. E. Curry	Ladderman	400 00
J. J. McGraw	Pipeman	400 00
J. T. Elliott	Ladderman	400 00
O. D. Burgess	Callman	400 00
J. H. Gildea	Callman	400 00
W. R. LaShorn	Pipeman	400 00
J. O. Healey	Pipeman	400 00
L. Pistel	Callman	400 00
J. H. Hayward	Captain	400 00
R. M. Brown	Ladderman	400 00
J. W. Blake	Tillerman	400 00
Jacob Hindes	Captain	400 00
B. T. Wirts	Callman	400 00
T. S. Rodenhi	Callman	400 00
T. H. Humphreys	Engineman	400 00
W. R. Ward	Captain	400 00

SALARIES OF OFFICERS AND MEMBERS.

	<i>Per Annum.</i>
1 Chief of Department.....	\$2,000 00
6 District Engineers, each.....	1,400 00
1 Superintendent of Machinery.....	1,400 00
Assistant Superintendent of Machinery.....	1,200 00
29 Captains of engine and hook and ladder companies, each	1,100 00
30 Lieutenants of engine and hook and ladder companies, each	1,000 00
21 Enginemen, each.....	1,100 00
23 Assistant enginemen, each.....	900 00
16 Tillermen of hook and ladder companies, each.....	900 00
28 Hostlers of engine and hook and ladder companies, each.....	900 00
7 Captains of chemical engine companies, each.....	900 00
10 Hostlers of chemical engine and Annex hook and ladder companies, each.....	800 00
145 Pipemen, each.....	800 00
54 Laddermen, each.....	800 00
2 Pilots on fire-boat, each	1,000 00
3 Stokers on fire-boat, each.....	800 00
20 Probationary firemen, each.....	500 00
—	
397 Officers and Members.	

NUMBER OF BOXES TO WHICH COMPANIES RESPOND.

COMPANIES.					First Alarm.	Second Alarm.	Third Alarm.	Total.
No.	1	Engine Company	.....	.....	69	170	67	306
"	2	"	"	.....	84	62	95	241
"	3	"	"	.....	67	83	55	205
"	4	"	"	.....	104	118	93	315
"	5	"	"	.....	73	43	50	176
"	6	"	"	.....	68	121	59	248
"	7	"	"	.....	80	128	87	295
"	8	"	"	.....	90	80	72	242
"	9	"	"	.....	105	36	16	157
"	10	"	"	.....	66	87	73	226
"	11	"	"	.....	51	31	12	104
"	12	"	"	.....	37	21	29	87
"	13	"	"	.....	75	59	49	183
"	14	"	"	.....	63	21	18	102
"	15	"	"	.....	120	129	66	315
"	16	"	"	.....	47	8	.....	55
"	17	"	"	.....	22	11	21	54
"	18	"	"	.....	60	28	28	116
"	19	"	"	.....	45	35	9	89
"	20	"	"	.....	21	13	18	52
"	21	"	"	.....	11	1	.....	12
Water Tower					32	72	1	105
No.	1	Hook and Ladder Company	.....	.....	59	78	43	180
"	2	"	"	.....	118	109	51	278
"	3	"	"	.....	79	33	19	131
"	4	"	"	.....	49	109	84	242
"	5	"	"	.....	118	6	3	127
"	6	"	"	.....	56	35	2	93
"	7	"	"	.....	15	.....	.....	15
"	8	"	"	.....	23	4	.....	27
"	9	"	"	.....	11	.....	.....	11
"	10	"	"	.....	56	32	18	106
"	11	"	"	.....	31	8	.....	39
No.	1	Chemical Engine Company	.....	.....	24	11	.....	38
"	2	"	"	.....	37	41	.....	78
"	3	"	"	.....	14	.....	.....	14
"	4	"	"	.....	25	13	.....	38
"	5	"	"	.....	25	13	.....	38
"	6	"	"	.....	26	19	.....	45
"	7	"	"	.....	11	.....	.....	11

SERVICE OF COMPANIES AT FIRES.

Engine Companies.		Responded.	Transferred.	Feet of hose laid.	Tanks used.	Extinguishers used.	Working time of engines.		Time away from quarters.	
							Hours.	Min.	Hours.	Min.
No. 1	Engine Company	182	..	41,850	57	2	106	50	218	..
" 2	"	190	..	37,900	70	..	93	30	262	45
" 3	"	223	..	20,050	89	..	52	45	151	30
" 4	"	172	..	23,300	67	..	49	35	118	26
" 5	"	220	21	12,250	38	..	44	15	159	50
" 6	"	235	4	19,850	79	4	33	45	152	..
" 7	"	200	3	34,500	75	..	41	30	214	15
" 8	"	231	9	17,450	60	..	53	..	171	..
" 9	"	301	24	15,700	55	2	38	15	270	35
" 10	"	174	1	24,200	8	..	88	30	280	40
" 11	"	162	27	14,600	6	18	69	30	126	35
" 12	"	102	40	14,650	31	6	48	30	160	30
" 13	"	167	25	14,350	1	63	16	15	145	15
" 14	"	123	..	19,100	..	52	30	22	104	15
" 15	"	194	..	31,550	64	..	118	15	191	45
" 15	"	7	..	1,950	..	4	3	20	7	18
" 16	"	114	..	3,850	..	..	29	..	84	15
" 17	"	42	49	12,600	..	32	30	..	150	..
" 18	"	107	14	15,800	3	15	26	..	125	15
" 19	"	103	27	15,350	..	42	33	50	106	10
" 20	"	23	8	7,200	36	..	20	40	86	..
" 21	"	31	..	9,050	13	..	17	30	59	30
Water Tower	.....	89	..	.....	..	..	..	..	..	..

SERVICE OF COMPANIES AT FIRES.

Hook and Ladder Companies.	Responded to.	Transferred.	Extinguishers used.	Ladders used.	Working time.	
					Hours.	Min.
No. 1 Hook and Ladder Company. .	150	28	40	257	215	45
" 2 " " " " " . . .	165	25	16	244	200	.....
" 3 " " " " " . . .	240	19	67	235	181	15
" 4 " " " " " . . .	120	51	25	165	253	45
" 5 " " " " " . . .	127	45	61	200	235	36
" 6 " " " " " . . .	156	9	63	260	232	.....
" 7 " " " " " . . .	9	....	9	10	19	57
" 8 " " " " " . . .	45	....	19	33	56	30
" 9 " " " " " . . .	31	....	12	36	40	.....
" 10 " " " " " . . .	128	77	37	111	321	55
" 11 " " " " " . . .	17	1	2	18	25	.....

Chemical Engines.	Responded to.	Transferred.	Tanks used.	Time away from quarters.	
				Hours.	Min.
No. 1 Chemical Engine Company.	46	....	29	58	20
" 2 " " " " "	80	....	28	66	25
" 3 " " " " "	76	1	20	51	15
" 4 " " " " "	43	....	14	28	23
" 5 " " " " "	30	....	18	24	40
" 6 " " " " "	50	....	34	49	30
" 7 " " " " "	31	....	6	40	.....

SECOND, THIRD AND GENERAL ALARMS OF FIRE DURING 1898.

Box.	Location.	Date.	Alarm.	Alarm.	Alarm.
318	Charles and Barnet streets.....	January 11.....	Second.....	.....	.....
123	Pratt and Gay streets.....	January 26.....	Second.....	.....	.....
431	Pratt street and Fremont avenue.....	February 17.....	Second.....	.....	.....
123	Pratt and Gay streets.....	February 17.....	Second.....	.....	.....
431	Pratt street and Fremont avenue.....	March 3.....	Second.....	.....	.....
527	Howard and Dover streets.....	March 11.....	.....	.....	General.....
631	Hanover and Ostend streets.....	March 12.....	.....	.....	General.....
233	Monument and Patuxent streets.....	March 20.....	.....	.....	General.....
153	Caroline and Thames streets.....	March 24.....	.....	.....	General.....
341	Biddle and St. Paul streets.....	April 7.....	Second.....	.....	.....
499	Lipp's Soap Factory.....	May 3.....	Second.....	.....	.....
14	No. 3 Engine House, Lombard street.....	May 10.....	.....	Third.....	.....
521	Charles and Camden streets.....	May 15.....	.....	.....	General.....
136	Union Dock, Foot of Concord street.....	May 15.....	.....	.....	General.....
336	Howard and Mulberry streets.....	May 27.....	Second.....	.....	.....
467	Frederick and Augusta avenues.....	May 29.....	Second.....	.....	.....
336	Howard and Mulberry streets.....	June 9.....	Second.....	.....	.....
72	Guilford and Huntingdon avenues.....	June 28.....	Second.....	.....	.....
485	Frederick avenue and B. & P. R. R.....	July 12.....	Second.....	.....	.....
393	Cedar avenue and Wood street.....	August 26.....	Second.....	.....	.....
42	No. 1 Engine House, Paca street.....	August 26.....	.....	Third.....	.....
437	Pratt and Greene streets.....	September 6.....	Second.....	.....	.....
518	Bayard and Warner streets.....	September 9.....	.....	Third.....	.....
525	Hanover and Pratt streets.....	November 16.....	Second.....	.....	.....
5	German and Light streets.....	December 22.....	Second.....	.....	.....

TABLE SHOWING THE NUMBER OF FIRES FOR EACH DAY OF THE WEEK IN 1898.

<i>Day.</i>	<i>Number of Fires.</i>
Sunday.....	209
Monday.....	209
Tuesday.....	177
Wednesday.....	191
Thursday.....	184
Friday.....	197
Saturday.....	206
	<hr/> 1,373

TABLE SHOWING THE NUMBER OF FIRES FOR THE HOURS OF THE DAY DURING 1898.

A.M.				P.M.			
BETWEEN				BETWEEN			
12 and	1 o'clock.....	45		12 and	1 o'clock.....	59	
1 "	2 ".....	40		1 "	2 ".....	62	
2 "	3 ".....	25		2 "	3 ".....	61	
3 "	4 ".....	25		3 "	4 ".....	60	
4 "	5 ".....	21		4 "	5 ".....	77	
5 "	6 ".....	17		5 "	6 ".....	96	
6 "	7 ".....	37		6 "	7 ".....	99	
7 "	8 ".....	36		7 "	8 ".....	89	
8 "	9 ".....	44		8 "	9 ".....	100	
9 "	10 ".....	51		9 "	10 ".....	89	
10 "	11 ".....	59		10 "	11 ".....	53	
11 "	12 ".....	81		11 "	12 ".....	47	
		<hr/> 481				<hr/> 892	

SUMMARY OF FIRES FOR 1898.

	District 1.	District 2.	District 3.	District 4.	District 5.	District 6.	Total Box.	Silent.	City.	Annex.	Total.
January	11	21	12	14	14	10	82	55	119	18	137
February.....	21	16	5	22	9	10	83	45	124	4	128
March	18	13	7	17	8	8	71	40	97	14	111
April	10	16	13	6	12	9	66	36	89	13	102
May	13	13	6	13	9	9	63	20	77	6	83
June	19	17	8	22	6	11	83	40	110	13	123
July	16	31	13	16	12	11	99	40	117	22	139
August.....	12	19	10	13	9	7	70	22	79	13	92
September	16	13	4	13	9	4	59	26	79	6	85
October.....	20	19	9	18	15	10	91	29	106	14	120
November	14	11	13	15	6	7	66	38	91	13	104
December	17	21	13	17	11	8	87	62	135	14	149
	187	210	113	186	120	104	920	453	1,223	150	1,373

NUMBER OF FIRES AND LOSSES EACH YEAR SINCE THE
ORGANIZATION OF THE PAID FIRE DEPARTMENT.

<i>Year.</i>	<i>Number of Fires.</i>	<i>Losses.</i>
1859.....	98.....	\$350,000 00
1860.....	112.....	310,000 00
1861.....	115.....	60,000 00
1862.....	130.....	83,000 00
1863.....	138.....	120,482 33
1864.....	143.....	163,528 49
1865.....	163.....	71,358 90
1866.....	178.....	181,115 00
1867.....	193.....	293,045 00
1868.....	145.....	76,244 75
1869.....	187.....	398,259 09
1870.....	203.....	432,717 07
1871.....	226.....	475,391 00
1872.....	245.....	300,000 00
1873.....	265.....	892,628 58
1874.....	384.....	506,826 15
1875.....	348.....	608,351 30
1876.....	332.....	563,248 78
1877.....	420.....	438,715 57
1878.....	371.....	162,312 78
1879.....	306.....	192,654 54
1880.....	343.....	580,290 09
1881.....	324.....	454,773 35
1882.....	358.....	330,113 84
1883.....	399.....	561,520 00
1884.....	388.....	617,871 79
1885.....	474.....	441,743 06
1886.....	430.....	896,527 12
1887.....	496.....	1,162,359 26
1888.....	602.....	1,272,478 82
1889.....	545.....	477,329 07
1890.....	594.....	441,152 65
1891.....	676.....	650,009 73
1892.....	795.....	839,435 77
1893.....	829.....	1,153,129 76
1894.....	831.....	542,188 29
1895.....	816.....	730,751 11
1896.....	985.....	423,062 79
1897.....	1,110.....	572,497 39
1898.....	1,373. (approximate).	878,592 46

The total loss by fires in 40 years has been..... \$19,705,704 78

TABLE SHOWING THE DIFFERENT CAUSES OF FIRES AND ALARMS.

Accidentally transmitted.....	3
Arch of oven caving in.....	1
Acid from broken carboy.....	1
Asphaltum ignited by heat of stove.....	1
Back draft.....	6
Badly constructed hearth.....	4
Benzine ignited by friction.....	1
Benzine ignited while cleaning clothing.....	1
Blowing out of fuse.....	1
Boiling over of a pot of tar.....	3
Board ignited by hot stove.....	1
Boiling over of a pan of grease.....	2
Boiling over of water ignited oil.....	1
Boiling over of hot oil.....	1
Bottle of turpentine falling on stove.....	1
Box ignited by lighted candle.....	1
Box pulled for preceding fire....	6
Box pulled for fire in Baltimore County.....	1
Boys playing with fire.....	2
Bonfire.....	1
Building fire in boat's galley.....	1
Burning chimney.....	41
Burning clothing ignites carpet	1
Burning grease on candle stick.....	1
Burning brush.....	4
Burning oil around lamp.....	1
Burning paper in yard.....	1
Burning paper in cellar.....	1
Burning rubbish.....	2
Burning shavings in yard.....	1
Burning waste paper in furnace.....	2
Burning out of electric light....	1
Burning of water back....	1
Carelessness.....	10
Careless handling of matches.....	9
Ceiling falling down.....	1
Childs' clothing ignited by hot stove.....	2
Children playing with lighted candle.....	1
Children playing with matches.....	46
Children playing with fire.....	2
Cleaning clothing with gasoline.....	1
Closed damper in stove.....	1
Clothing ignited by lighted match.....	2
Clothing ignited by gasoline stove.....	2
Clothing ignited by lighted candle.....	4
Clothing ignited by lighted lamp.....	1
Clothing ignited by hot stove.....	1
Coal-oil stove exploded.....	20
Coal-oil lamp falling on floor.....	2
Coal-oil heater ignited carpet.....	1

Coal-oil heater falling to pieces.....	1
Coals dropping from grate.....	1
Coals dropping from furnace.....	1
Collision of locomotives.....	1
Crossed wires.....	2
Curtain ignited by gasoline stove.....	1
Curtain ignited by coal oil lamp.....	1
Curtain ignited by lighted match.....	1
Curtain ignited by lighted candle.....	2
Curtain ignited by lighted gas jet.....	21
Defective chimney.....	4
Defective oil stove.....	2
Defective flue.....	48
Defective flue board.....	1
Defective furnace.....	1
Defective hearth.....	4
Defective insulation.....	1
Defective wiring of pole.....	1
Defective stove.....	1
Door frame ignited by lighted cigar.....	1
Drawing fire from furnace on coal.....	1
Dropping lighted match.....	1
Dropping a coal oil lamp.....	1
Drying wood in stove.....	1
Electric converter.....	4
Electric controller.....	2
Electric lights.....	2
Electric wire.....	27
Explosion of a can of coal oil.....	1
Explosion of a bottle of gasoline.....	1
Explosion of a can of gasoline.....	9
Explosion of coal-oil lamp.....	35
Explosion of gas.....	3
Explosion of gasoline lamp.....	2
Explosion of gasoline.....	2
Explosion of gas holder.....	1
Explosion of powder.....	1
Explosion of gasoline stoves.....	88
Explosion of gasoline tank.....	1
Explosion of gasoline torch.....	1
Explosion of vapor from gasoline.....	2
Explosion of gas meter.....	1
Explosion of oils and varnish.....	1
Excessive heat.....	1
Escaping gas ignited by lighted match.....	1
False alarm (various causes).....	75
Fireworks.....	17
Filling lighted gasoline stove.....	5
Flames from gasoline stove.....	5
Flames igniting gasoline.....	1
Flames from stove.....	2
Friction of belt.....	1
Friction of machinery.....	1
Friction of matches.....	2
Fumigating dwelling.....	3

Gas jet igniting decorations.....	1
Gas jet igniting ceiling.....	1
Gas jet igniting drapery.....	1
Gas jet igniting goods.....	3
Gas jet igniting joists.....	1
Gas jet igniting lambrequin.....	1
Gas jet igniting portiers.....	1
Gas jet igniting paper.....	1
Gas jet igniting stationery.....	1
Gas jet igniting woodwork.....	2
Gasoline ignited while drawing.....	3
Gasoline ignited while filling stove.....	1
Gasoline ignited by lantern.....	1
Gasoline ignited by lighted lamp.....	2
Gasoline ignited by lighted match.....	6
Gasoline igniting from fire.....	2
Gasoline barrel ignited while cleaning.....	1
Gasoline set on fire by boys.....	1
Gas ignited by lighted match.....	1
Gas hose igniting burlap.....	1
Grease boiling over.....	4
Heat from ash-pan.....	1
Heat from boiler.....	3
Heat from castings.....	1
Heat from coal-oil stove.....	1
Heat from furnace.....	2
Heat from fire.....	1
Heat from incandescent light.....	1
Heat from gasoline stove.....	2
Heat from lamp.....	2
Heat from range.....	1
Heat from radiator.....	1
Heat from stove.....	9
Heat from stack.....	2
Heat from stove igniting gasoline.....	1
Heat from stove igniting clothing.....	2
Heat from stove igniting coal oil.....	1
Hot ashes.....	8
Hot cinders from forge.....	1
Hot coals from furnace.....	1
Hot soot dropping from chimney.....	1
Hot tar boiling over.....	1
House filled with smoke.....	1
Illuminating toy house igniting Christmas tree.....	1
Incendiary.....	7
Lambrequin ignited by coal-oil lamp.....	1
Lamp ignited mosquito net.....	1
Leaking coal-oil lamp.....	1
Leaking coal-oil stove.....	6
Leaking gasoline stove.....	16
Leaking gas pipe.....	4
Leaking gasoline tank.....	4
Leaking gasoline can.....	1
Lighted candle igniting couch.....	1
Lighted candle igniting Christmas tree.....	10

Lighted candle igniting gasoline.....	3
Lighted candle igniting lounge.....	2
Lighted candle igniting bags.....	1
Lighted candle igniting designs	1
Lighted candle igniting rags.....	1
Lighted candle igniting straw.....	1
Lighted cigar igniting clothing.....	1
Lighted match thrown out of window.....	1
Lighted match thrown under stairway.....	1
Lighted match igniting coal oil.....	1
Lighted match igniting gasoline.....	1
Lighted match igniting drapery.....	1
Lighted match igniting straw.....	1
Lighted match igniting lounge.....	5
Lighted match igniting portiers.....	1
Lighted match igniting curtains.....	1
Lighted match igniting goods.....	1
Lighted match igniting bed.....	1
Lighted match igniting paper.....	1
Lighted match thrown among rags.....	1
Lighted match thrown on floor.....	2
Lightning.....	2
Meat catching fire on stove.....	2
Mice or rats gnawing matches.....	12
Overheated boiler.....	1
Overheated current.....	1
Overheated coal-oil lamp.....	2
Overheated cupola.....	1
Overheated coal-oil stove.....	7
Overheated fire-place.....	1
Overheated oven.....	6
Overheated kiln.....	2
Overheated steam pipe.....	1
Overheated stove or furnace.....	47
Overheated stove or furnace pipe.....	14
Overheated tar pot.....	1
Overflow of gasoline tanks.....	5
Overflow of coal-oil stove.....	5
Panic in school.....	1
Pan of fat boiling over.....	5
Pouring gasoline in stove.....	1
Purposely set on fire.....	2
Rekindling of previous fires.....	4
Set on fire by boys.....	8
Sea grass ignited by gasoline lamp.....	1
Smoking coal-oil stove.....	2
Smoke blowing over roof.....	2
Smoke from chimney.....	1
Smoke from furnace.....	1
Smoke through partition.....	1
Smoke from stove.....	1
Smoke from window.....	1
Smoking pipe.....	1
Smoking pipe in bed.....	2
Smoke from open grate.....	1

Smoke pipe placed in false chimney.....	1
Sparks from chimney.....	24
Sparks from engine.....	1
Sparks from electric converter.....	1
Sparks from emery wheel.....	1
Sparks from furnace.....	2
Sparks from fire.....	1
Sparks from kiln.....	1
Sparks from locomotive.....	5
Sparks from open grate.....	2
Sparks from pipe.....	1
Sparks from stove.....	3
Sparks from smoke house.....	1
Sparks from stack.....	5
Sparks from electric wire.....	1
Sparks falling in shavings.....	1
Storm (wind).....	1
Spontaneous combustion.....	17
Supposed incendiary.....	9
Supposed spontaneous combustion.....	9
Switch board.....	1
Table cover ignited from curling iron.....	1
Table cover ignited by lighted match.....	1
Throwing lighted match on dress.....	1
Tinner's fire pot.....	2
Tip blown out of gas jet.....	1
Too much wood being used.....	1
Toy match pistol.....	1
Towel ignited by lighted match.....	1
Treading on match.....	2
Unknown.....	330
Upsetting coal-oil lamp.....	14
Upsetting can of gasoline.....	1
Upsetting coal-oil stove.....	5
Upsetting cook stove.....	5
Upsetting lighted candle.....	5
Vapor from alcohol ignited by gas jet.....	1
Vapor from gasoline tank.....	1
Vapor of gasoline ignited by heat of stove.....	2
Waste ignited by lighted match.....	1
Wood lying on heat box of furnace.....	1
Total.....	1,373

NOTABLE FIRES DURING THE YEAR.

January 9th—Box 416.—Nos. 504 to 508 W. German street, three-story brick building, occupied as a storage warehouse, owned by Wesley M. Oler. The fire originated on the second-floor, damaging the stock of straw hats, card-board, etc. The alarm was received at 6.03 p.m., and the recall signal at 8.41 p.m. The services of four engine companies and two hook and ladder companies were required. The cause of the fire unknown. Loss \$6,042.54.

January 11th—Box 318.—No. 210 N. Charles street, three-story brick building, occupied by Gibson, Glaser & Co., as a musical instrument store. The fire did partial damage to the interior woodwork and stock, consisting of musical instruments, etc., extending to the adjoining property, No. 212 N. Charles street, occupied by Messrs. Clarke & Stevens, dealers in laces and linens, partially destroying woodwork. The first alarm was received at 8.36 p.m., the second alarm at 8.52 p.m., and the recall signal at 12.03 a.m. The services of nine engine companies and four hook and ladder companies were required. Cause of fire unknown. Loss \$22,636.40.

February 1st—Box 121.—No. 121 South street, four-story brick building, occupied by Joseph Johnson, manufacturer of fishing tackle, nets, hammocks, etc.; partial burning of stock, interior woodwork and roof. The services of five engine companies and two hook and ladder companies were required. The first alarm was received at 6.19 a.m., and the recall signal at 10.45 a.m. Cause of fire, supposed spontaneous combustion. Loss \$10,835.87.

February 17th—Box 65.—Nos. 1913 and 1915 S. Charles street, one-story brick building, occupied by P. Kennedy as an iron foundry, burning patterns, flasks, etc. The alarm was received at 12.32 a.m., and the recall signal at 3.25 a.m. The services of four engine companies and one hook and ladder company were required. Cause of fire unknown. Loss \$9,732.44.

March 11th—(Box 869, Automatic,) Box 527.—Nos. 303 and 305 King street, occupied by Frederick Bergner. Partial burning

of the three-story brick building and contents, consisting of moulding and light material used in the manufacture of albums and picture frames. The first alarm was received at 12.46 a.m., from automatic box 869, and from city box at 12.52 a.m., the second alarm at 12.58, and the recall signal at 8.33 a.m. The services of eight engine companies and four hook and ladder companies were required. Cause, woodwork taking fire from an overheated boiler. Loss \$5,959.

March 12th—Box 631.—A five-story brick building, west side of Raw street, extending from Clement to Ostend streets, occupied by Keen, Hagerty & Co., as a tinware factory. Partial burning of the third, fourth and fifth floors, and contents, consisting of tinware, etc. The first alarm was received at 4.52 a.m., and the the four twos (2222) at 4.59 a.m., and the recall signal at 2.14 p.m. The services of eleven engine companies and three hook and ladder companies were required. The cause of the fire unknown. Loss \$120,567.50.

March 20th—Box 233.—Burning of frame sheds, lumber, stables, frames and nine horses, fencing, etc., in the lumber yard, Nos. 625 to 629 Milton avenue, occupied by August Hamerman, extending and partially burning frame sheds and out-buildings of seven two-story brick dwellings from No. 613 Port street, occupied by William Sherer and others, and partial burning of frame out-houses and fences of the six two-story brick dwellings from No. 2431 East Monument street, occupied by John Haverling and others. The first alarm was received at 4.54 a.m., the second alarm at 5.02 a.m., the four twos (2222) at 5.03 a.m., and the recall signal at 10.15 a.m. The services of seven engine companies, three hook and ladder companies and one chemical engine company were required. The cause of the fire unknown. Loss \$11,014.73.

March 24th—Box 153.—Nos. 613, 615 and 617 South Caroline street, three-story brick building, occupied by George Woelfel as a furniture factory. The fire originated on the second floor, and partially destroyed the stock and building on the first and second floors. The first alarm was received at 2.50 a.m., and the four twos (2222) at 2.55 a.m., and the recall signal at 7.55 a.m. The services

of ten engine companies and three hook and ladder companies were required. The cause of fire, supposed spontaneous combustion. Loss \$6,846.78.

April 7th—Box 341.—No. 1214 St. Paul street, occupied by Charles K. Lord. The building was four-story brick. The fire originated from a defective hearth on the first floor, extending to and partially burning the interior woodwork, ceiling and furniture on the first, second and third floors; extending to and partially burning roof of a three-story brick and mansard dwelling, No. 1216 St. Paul street, occupied by Alexander Gordon. The first alarm was received at 1.25 a.m., the second alarm at 2.15 a.m., and the recall signal at 5.47 a.m. The services of three engine companies, two hook and ladder companies, and one chemical engine were required. Loss \$17,183.36.

May 3rd—Box 499.—Three-story brick building, Hollins street, near Calverton road, occupied by Christopher Lipp, as a soap factory. The fire originated on the third floor, from an unknown cause, entirely destroying the contents, consisting of soap, etc. The roof was partially burned. The first alarm was received at 12.42 p.m., the second alarm at 1.10 p.m., and the recall signal at 5.28 p.m. The services of five engine companies, three hook and ladder companies and one chemical engine company were required. Loss \$19,345.47.

May 10th—Box 14.—Nos. 819 and 821 Granby street, the four-story brick building, occupied by Peter Lineweaver & Co., as a can factory. The fire originated from an unknown cause, burning stock, machinery, interior woodwork and roof. The first alarm was received at 6.53 a.m., the second at 6.59, the third at 7.06 and the recall signal at 11.26 p.m. The services of eleven engine companies and four hook and ladder companies were required. Loss \$9,500.51.

May 15th—Box 521.—Nos. 13, 15, 17 and 19 E. Camden street, a four-story double brick building, occupied by the National Biscuit Company, D. W. Laus, manager. The fire extended from the second floor, the place of origin, to the third and fourth floors, partially burning the contents, consisting of crackers and cakes, and partially burning the interior woodwork and roof,

extending to and partially burning the roof of four-story brick building No. 11 E. Camden street, occupied by R. S. Gordon & Co. as a warehouse and commission merchant's office. The first alarm was received at 11.47 p.m., the four twos (2222) at 11.51 p.m., and the recall signal at 6.04 a.m., May 16. The services of thirteen engine companies and four hook and ladder companies were required. Cause of fire, an overheated bake-oven. Loss \$33,147.14.

May 17th—Box 136.—Wharf foot of Union Dock, occupied by the Baltimore Steam Packet Company. The fire originated among a lot of cotton under the sheds, extended and burned sheds and contents, consisting of cotton, turpentine, canned goods, clothing, etc., also partial burning of a two-and-a-half-story brick office, extending to and partially burning of a barge loaded with cotton. The first alarm was received at 12.57 p.m., the four twos (2222) at 1.07 p.m., and the recall signal at 5.57 a.m., May 19. The services of fourteen engine companies and five hook and ladder companies were required. Cause, supposed spontaneous combustion. Loss \$89,889.52.

May 29th—Box 467.—The two two-story brick car barns located on the Frederick road, occupied by the Consolidated Railway Company. The fire originated in the rear of the east barn, extended through and totally destroyed both barns and contents, consisting of 130 cars, varnish, oils, etc., extending to and partially burning the fences and outbuildings in the rear of the four two-story frame dwellings from No. 27 Loudon avenue, occupied by Mrs. Catherine Elliott and others. The first alarm was received at 5.47 p.m., the second at 5.56 p.m., and the recall signal at 5.06 a.m., May 30. The services of three engine companies, two hook and ladder companies, and one chemical engine were required. Cause of fire unknown. Loss \$254,783.76.

July 27th—Box 525.—No. 107 Hanover street, a six-story brick building occupied by D. Levi & Co. as a ladies' waist manufactory, partial burning of interior woodwork and stock. The first alarm was received at 4.38 a.m., and the recall signal at 7.34 a.m. The services of three engine companies and two hook and ladder companies were required. The cause of the fire unknown. Loss \$12,442.84.

August 26th—Box 393.—A four-story stone flour mill, located on the Falls road, occupied by D. C. Timanus. The fire originated from an unknown cause, destroying the contents, consisting of flour and grain, and partially burning the building. The first alarm was received at 1.18 a.m., the second at 1.31 a.m., and the recall signal at 8.38 a.m. The services of two engine companies and one hook and ladder company were required. Loss \$7,238.10.

August 26th—Box 42.—Nos. 12 and 14 North Paca street, a four-story brick building, occupied by Miller & Miller as a pork-packing establishment. The fire, originating from an unknown cause, partially destroyed the rear buildings, stock, consisting of hams and smoked meats, together with several horses. The first alarm was received at 4.41 a.m., the second at 4.44 a.m., the third at 4.51 a.m., and the recall signal at 9.25 a.m. The services of nine engine companies and four hook and ladder companies were required. Loss \$19,474.13.

September 11th—Box 414.—No. 303 West Baltimore street, a four-story and basement brick building, occupied by Joseph Schenthal & Co., manufacturers of overalls, drawers, etc. The fire originated from an unknown cause, partially destroying stock and interior woodwork. The first alarm was received at 12.56 a.m., and the recall signal at 3.45 a.m. The services of four engine companies and two hook and ladder companies were required. Loss \$13,168.08.

December 22—Box 5.—No. 14 Light street, a five-story brick building, occupied by E. Packham & Co. as manufacturers of fancy flasks, corks, etc. The fire originated in the cellar and extended by the way of the elevator shaft very rapidly through the building to the roof, destroying the stock and interior woodwork. The first alarm was received at 11.02 a.m., the second alarm at 11.11 a.m., and the recall signal at 4.20 p.m. The services of nine engine companies and four hook and ladder companies were required. The cause of the fire an explosion of gas. Loss could not be ascertained.

FIRES WHICH WERE ATTENDED BY LOSS OF LIFE.

1898.

January 3rd—Box 241, 7.02 p.m.—Mrs. Mary Chase, No. 803 Hillen street, fatally burned about the body and face. Cause, explosion of gasoline stove.

January 22d—(Special).—Carrie Lotz, aged six years, No. 2111 McElderry street, fatally burned about the body. Cause, her clothing igniting from stove.

February 1st—Box 636, 9.13 a.m.—Mrs. Mary Lent, aged seventy years, No. 1220 Hull street, died from effects of burns received. Cause, her clothing igniting from stove.

March 15th—Box 146, 9.44 a.m.—Michael Serwinski, of No. 202 Albemarle street, (garment worker,) occupying the fourth floor became excited and leaped to the ground, killing himself instantly. Cause, explosion of gasoline stove.

March 30th—(Special), 8.45 a.m.—Lawrence Douglass, aged five years, No. 811 N. Dallas street, fatally burned about the body. Cause, the clothing of the child igniting from stove.

June 6th—Box 366, 4.11 p.m.—Mrs. Burns, No. 529 Laurens street, fatally burned about body. Cause, filling a gasoline stove while same was burning.

June 20th—Silent, 5.50 a.m.—Myrtle Kramer, aged five years, No. 2520 Salem street, suffocated by smoke. Cause, explosion of gasoline stove.

July 25th—Box 38, 4.22 a.m.—Mrs. Lena Buck, No. 1526 N. Fremont avenue, fatally burned about body and limbs. Cause, her clothing igniting from gasoline stove.

August 27th—Box 34, 1.17 a.m.—Charles Seroch, suffocated by smoke while asleep in the loft of a two-story brick stable, No. 1016 Morton alley. Occurred before the arrival of the department.

September 18th—Box 394, 10.35 a.m.—Mrs. Amita Bounds, No. 284 Hickory avenue, fatally burned about the body. Cause, her clothing igniting from gasoline stove.

December 14th—Box 368, 2.18 p.m.—Two children of William Foster—Eddie, aged two years, and Maria, aged ten months—were suffocated by smoke in the front room of the two-story brick dwelling, No. 730 Sarah Ann street. Cause, overturning of stove.

LOSS OF LIFE—SPECIAL.

Saturday, December 17th—Time of alarm, 9.30 a.m.—Mrs. Sarah Pfeltz, No. 118 Jackson Place, aged seventy-five years, fatally burned. Cause, supposed her clothing ignited from stove.

FIRES AT WHICH RESCUES WERE MADE.

February 2d—Box 48.—2203 W. Pratt street, two-and-a-half-story brick, 8.59 p.m. Mrs. Barbara Boehmn, who was sick in bed, was rescued from the second front-story window, by means of a ladder, by Captain Edward W. Steinacker, of No. 1 Chemical Company, assisted by Lieutenant W. C. D. Knight, Engine Company No. 14.

March 9th—Silent.—Three-story brick shoe store and dwelling, 2.05 a.m. Mrs. Catherine Glantz, residing at 1020 Hillen street, being cut off from stairway by smoke, was rescued from the second-story front window, by means of a ladder, by Captain Charles Betz, of Engine Company No. 6.

March 12th—Box 631.—Six-story brick building, occupied by Keen & Hagerty, as tinware factory, 4.52 a.m. James Bratten, watchman, whose escape was cut off from stairway, was rescued from a window on the fifth floor, by means of ladders, by Lieutenant F. A. Teal and members of No. 6 Hook and Ladder Company. The rescue was effected at great personal risk to Lieutenant Teal, whose bravery was duly recognized, he being presented with the Merchants' Medal, and his name being inscribed on the Roll of Honor of the department.

October 29th—Box 453.—1605 W. Lanvale street, three-story brick dwelling, 2.10 a.m. Mrs. Harry Fuss and daughter, Miss Bessie Fuss, were rescued, by means of ladders, from the third floor, by Captain Malcolm W. Jordan and Lieutenant Henry Kabernagel, of No. 10 Hook and Ladder Company. The escape of the occupants was cut off from stairway by the dense smoke and severe heat. Mr. Harry Fuss also made his escape by means of the ladder.

December 15th—Box 445.—796 W. Saratoga street, three-story building, 12.22 a.m. Mrs. Annie Rachensperler, Miss Maggie

Rachensperler and Joseph Rachensperler were rescued by means of ladders from the third-story window, by Captain William J. Stewart, Lieutenant John Cook and Pipeman James McGee, of Engine Company No. 8, passing them to Pipeman Albert Schyne, of Engine Company No. 13, who took them to the pavement from the second-story, thence to a place of safety. The occupants of the building were cut off from the stairway by dense smoke.

Wednesday, December 20th—Box 462.—The two children of Henry Proeschel, residing at 1904 W. Lombard street, were rescued by Pipeman Leonard Jessop, of Engine Company No. 14, from a room on the third floor in which an explosion of a gasoline stove had taken place.

Sunday, December 25th—Silent.—William Gross, aged nine years, was rescued from the second-story front room by Pipeman Thomas W. Jessop, of Engine Company No. 8, by means of a ladder placed at window of the two-story brick dwelling, No. 1023 Harmony lane. The escape of the occupant had been cut off by smoke.

CASUALTIES.

COMPANY.	POSITION.	NAME.	DATE OF INJURY.	BOX.	TIME OFF DUTY.	NATURE OF INJURY.
No. 1 Engine.	Chief Eng'r.	W. C. McAfee.....	January 18..	418	16 days.	Left knee lacerated and contusions of body.
" 2 "	Dist. Chief.	L. H. Burkhardt..	May 17.....	136	78 days.	Concussion of the brain.
" 2 "	Pipeman....	Albert Oelmann....	May 28.....	413	2 days..	Right ankle sprained.
" 2 "	"	William H. Bell....	March 11....	527	6 days..	Right hand cut.
" 2 "	Lieutenant.	George C. Young..	March 11....	527	"	Right hand cut.
" 2 "	Pipeman	William Kimball..	July 9.....	514	6 days..	Arms burned.
" 2 "	"	Edward Tauber....	December 31	543	"	Right hand burned.
" 3 "	Engineman..	Wm. T. Hubbard..	May 17.....	136	26½ days	Compound fracture of finger.
" 4 "	"	Herbert W. Peerce	September 19	In quarters.	9 days..	Fingers lacerated.
" 4 "	Hostler....	Israel D. Appleby..	February 10..	"	5½ days.	Kicked on left hip by a horse.
" 4 "	Pipeman	F. C. H. Berger...	February 17..	123	26 days.	Face burned and contusions of the body.
" 5 "	Engineman..	Fred'k L. Nelson..	June 21.....	235	11 days.	Fingers lacerated.
" 6 "	Lieutenant.	Lawrence Blake..	May 30.....	213	5 days..	Contusions of left foot.
" 6 "	Pipeman	Gustave Miller....	May 2.....	In quarters.	7½ days	Right ankle sprained.
" 7 "	"	Jas. T. Braden....	July 19.....	327	Died....	Internal injuries causing death.
" 7 "	"	John Weinkamp....	July 19.....	327	8 days..	Contusions of the body and arms.
" 7 "	"	Chas. T. Soistmann	July 19.....	327	Still off.	Compound fracture of right leg and contusions of body.
" 8 "	"	Thos. W. Jessop...	March 3.....	431	3¼ days.	Contusions of head and neck.
" 8 "	"	Charles Airey....	June 9.....	499	5 days..	Face cut by barbed wire.
" 9 "	Lieutenant..	Solomon Uhlfelder	August 6....	23	54 days.	Contusion of feet.
" 9 "	Pipeman	Albert Raine....	December 10	185	5 days..	Abscess on finger from a cut.
" 10 "	Hostler....	James T. Higdon..	August 2....	514	8 days..	Left wrist sprained.
" 12 "	Pipeman	John F. Moran....	November 13	In quarters.	12½ days	Right hand lacerated.
" 13 "	Hostler....	John F. Mackeuzie	February 13..	"	3¼ days.	Bruised ankle.

CASUALTIES.—Continued.

COMPANY.	POSITION.	NAME.	DATE OF INJURY.	BOX.	TIME OFF DUTY.	NATURE OF INJURY.
No. 13 Engine.....	Probationer.	Milton Quigley...	January 7...	429	9½ days.	Scalp wound.
" 13 ".....	Substitute ..	Frederick Hedrick	February 16.	36	21 days.	Right leg ent.
" 15 ".....	Captain	John Todd.....	March 11...	527	35 days.	Right ankle ent.
" 15 ".....	Lieutenant ..	James A. Campbell	September 6.	437	12½ days	Face and hands burned.
" 15 ".....	Pipeman	Charles L. Schulte	September 11	In quarters.	23½ days	Toe on right foot broken.
" 15 ".....	"	John A. Henneman	April 8.....	54	49½ days	Contusion of muscles of back.
" 15 ".....	Probationer.	Chas. L. Francke.	August 27...	Laurel, Md.	Died....	Skull crushed by being run over by steamer.
" 15 ".....	Substitute ..	Charles T. Taylor.	March 5.....	417	41 days	Toe on right foot fractured.
" 18 ".....	Pipeman	Thos. H. Sutton...	May 13.....	In quarters.	11½ days	Contusion of left knee.
" 18 ".....	"	Jos. J. Presley....	August 28...	"	50 days.	Fracture of small bone in right foot.
" 18 ".....	Hostler	John W. Potts....	October 4...	"	18 days.	Sprained back.
" 18 ".....	Captain	John H. Morgan...	December 1.	Silent alarm.	5¾ days.	Left wrist and thumb sprained.
" 21 ".....	Pipeman	William Bateman.	January 1...	"	7 days..	Face burned.
" 21 ".....	"	James L. Clarken.	January 4...	"	"	Face burned.
" 21 ".....	"	Joseph F. Knight.	August 31...	56	6 days..	Left thigh bruised.
" 21 ".....	"	Q. A. G. Hughes...	March 22...	12	8 days..	Left hand burned.
No. 1 Hook and Ladder	Lieutenant .	F. A. Teal.....	November 17	413	9½ days.	Left leg burned by acid.
" 1 ".....	"	Harry A. Donahoe	May 17.....	136	8 days..	Right foot sprained.
" 1 ".....	"	John H. Blake....	Feb. 18, 1897.	521	12 mos..	Left hip fractured. Pensioned February 20, 1898.
" 2 ".....	"	Geo. E. Foruwallt..	June 9.....	336	17½ days	Right foot ent.
" 3 ".....	Ladderman .	John McClellan...	June 21.....	235	8½ days.	Scalp wound.
" 3 ".....	"	Fred'k Grauling...	February 21.	157	17 days.	Left wrist sprained.
" 3 ".....	"	Harry Courtuey...	June 9.....	Drilling.	Died....	Fracture of spinal cord.
" 1 ".....	Ast. Tillm'n	Henry Kabernagel	March 11....	527	31½ days	Right ankle sprained.

" 1 Hook and Ladder	Ladderman	George E. Gill....	April 8.....	In quarters.	13 $\frac{3}{4}$ days	Cut on left knee.
" 4 " "	Probationer.	G. W. Hughes....	September 9	518	5 days..	Laceration of right hand.
" 5 " "	Lieutenant	Lawrence Blake..	September 8	358	5 $\frac{1}{4}$ days.	Abscess on left foot from a bruise.
" 5 " "	Ladderman	Wm. H. Cullen....	March 15.....	146	8 days..	Contusion of right knee.
" 5 " "	"	James Radford....	November 3	In quarters.	53 $\frac{3}{4}$ days	Both wrists sprained.
" 6 " "	Captain	T. D. O'Keefe....	February 17.	65	.....	Right foot lacerated by a nail.
No. 6 Hook and Ladder	Captain	T. D. O'Keefe....	May 9.....	561	.....	Left hand burned.
" 6 " "	Asst. Filin	A. G. Bramble....	May 9.....	561	8 $\frac{1}{2}$ days.	Right foot lacerated by a nail.
" 9 " "	Ladderman	John R. Miller....	July 10.....	721	1 $\frac{1}{2}$ days.	Right eye injured.
" 10 " "	"	M. W. Jordan....	January 21.	393	8 days.	Contusion of left heel.
" 10 " "	Ladderman	John J. Clancey....	February 17.	In quarters.	8 $\frac{1}{2}$ days.	Scalp wound.
" 10 " "	"	James A. DePuey.	September 6.	371	6 $\frac{1}{4}$ days.	Cut on left hand.
" 1 Chemical	Hostler.....	William Lamb....	November 11	72	.....	Contusion of right knee and left arm.
" 1 " "	Pipeman....	James Hart.....	October 9....	291	22 $\frac{1}{2}$ days	Face and hands burned.

Roster of the Department

— AND —

LOCATION OF COMPANIES.

1898.

OFFICERS.

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
William C. McAfee.....	34	April 1, 1888..	Chief Engineer..	2216 Oak st.....	Plumber.
George W. Horton.....	52	Mar. 15, 1862..	1st Dist. " ..	404 Colvin st.....	Wire worker.
August Enrich.....	36	June 13, 1884..	2nd " " ..	1032 E. Monument st....	Coal dealer.
Frederick Branau.....	51	April 1, 1879..	3rd " " ..	324 W. Twenty-first st..	Harnessmaker.
Fielding H. Lucas.....	47	April 1, 1881..	4th " " ..	1013 N. Arlington ave....	Type founder.
Levin H. Burkhardt....	31	Nov. 3, 1890..	5th " " ..	1252 Barclay st.....	Carpenter.
William H. Hartman....	40	April 2, 1883..	6th " " ..	1503 Aisquith st.	Plumber.
George J. Linsenmeyer..	56	April 20, 1883..	Supt. of Mach'y..	1435 Battery ave.....	Machinist.
Thomas G. Griffith.....	26	June 1, 1898..	Asst. Supt. Mach'y	1908 McElderry st.....	"

No. 1, ENGINE COMPANY.

Located on Paca Street, North of Fayette Street.

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
James T. Dunn.....	38	April 1, 1890..	Captain.	636 W. Fayette st.....	Moulder.
William F. Morrow.....	49	April 1, 1876..	Lieutenant.	522 Laurens st.....	"
John H. Deal.....	56	Feb. 1, 1872..	Engineman.	1519 Myrtle ave.....	Machinist.
William H. Hardy.....	31	Mar. 6, 1895..	Asst. Engineman.	328 S. Poppleton st.....	"
Louis J. Fresch.....	55	Dec. 16, 1872..	Hostler	507 N. Schroeder st.....	Carpenter.
Edward R. Addison.....	51	July 3, 1874..	Pipeman	126 N. Poppleton st.....	Driver.
Albert Oelmann.....	32	June 28, 1888..	"	627 W. Stratoga st.....	Blacksmith.
George W. Bentz.....	58	April 1, 1868..	"	523 W. Saratoga st.....	Baker.
Wilbur D. Barker.....	28	May 29, 1896..	"	1301 Columbia ave.....	Steamfitter.
Joseph G. Burger.....	39	Mar. 30, 1897..	"	1137 N. Calhoun st.....	Driver.
John Watson.....	25	Dec. 15, 1897..	"	903 W. Mulberry st.....	Carpenter.

No. 2 ENGINE COMPANY.—*Located on Barre Street, West of Sharp Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry C. Dotter	33	May 30, 1896.	Captain	2327 Canton av.	Moulder.
George C. Young	16	Mar. 31, 1891.	Lieutenant	224 N. Monroe st.	Tinner.
Thomas S. Atkinson	18	Aug. 5, 1881.	Engineman	226 N. Monroe st.	Machinist.
Daniel H. Weber	38	Aug. 1, 1889.	Asst. Engineman	8 E. Montgomery st.	Machinist.
Frank Hines	31	April 30, 1890.	Hostler	906 S. Sharp st.	Tinner.
George H. Hewitt	33	May 1, 1891.	Pipeman	406 S. Sharp st.	Brushmaker.
Charles E. Rice	29	April 15, 1893.	"	1633 W. Lexington st.	Packer.
William H. Bell	42	May 22, 1891.	"	1118 Cleveland st.	Blacksmith.
Edward Tamber	32	June 1, 1890.	"	13 N. Carrollton av.	Driver.
William Kimball	28	Mar. 1, 1895.	"	101 Roschind av.	Paperhanger.
William Landefeld	31	Dec. 12, 1896.	"	105 N. Patterson pk. av.	Cutter.
John J. Schlag	32	Nov. 27, 1897.	"	1156 Scott st.	Moulder.

No. 3 ENGINE COMPANY.—*Located on East Lombard Street, near High Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
August Sehlum	32	April 1, 1890.	Captain	1010 Eastern av.	Hostler.
Frederick J. Strochlein	26	Dec. 15, 1896.	Lieutenant	1913 Orleans st.	Clerk.
William F. Hubbard	40	Dec. 7, 1893.	Engineman	31 S. Bond st.	Marine Engineer.
Joseph P. Whalen	33	July 28, 1896.	Asst. Engineman	107 S. High st.	Machinist.
Oliver F. Cannoles	36	April 2, 1897.	Hostler	61 Belair av.	Carpenter.
George L. Schlum	38	April 1, 1888.	Pipeman	252 S. Exeter st.	Boxmaker.
Herman Fumbangh	40	April 1, 1888.	"	1817 E. Lombard st.	Hostler.
Henry Mel	25	Dec. 15, 1896.	"	1608 E. Chase st.	Carpenter.
Frank Doerer	33	Mar. 5, 1895.	"	111 N. Durham st.	Hostler.
Arthur G. Harrison	26	June 3, 1897.	"	729 N. Entaw st.	Plumber.
John Grasmick	25	Dec. 24, 1896.	"	1413 Bank st.	Carpenter.

No. 4 ENGINE COMPANY.—*Located on Lexington Street, between North and Calvert Streets.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Lawrence Pistol.....	48	May, 1, 1873..	Captain.....	1544 Argyle ave.....	Cigarmaker.
John T. Owens.....	26	July 25, 1896..	Lieutenant.....	1611 N. Wolfe st.....	Electric winder.
Herbert W. Pierce.....	31	July 1, 1891..	Engineman.....	725 E. Preston st.....	Machinist.
Frederick C. Weiss.....	24	Oct. 1, 1896..	Asst. Engineman.....	2007 Gough st.....	Machinist.
Israel D. Appleby.....	46	Dec. 12, 1896..	Hostler.....	1933 Hollins st.....	Driver.
Constant Siebert.....	45	April 5, 1883..	Pipeman.....	1246 E. Preston st.....	Driver.
Frank C. H. Berger.....	42	April 3, 1886..	".....	908 Ensor street.....	Silversmith.
Henry F. Boerner.....	38	Mar. 1, 1895..	".....	707 Colvin Place.....	Tinner.
George A. Foard.....	34	May 9, 1896..	".....	731 35th st., Hampden..	Clerk.
Henry C. Grimes.....	29	June 4, 1897..	".....	904 W. Lexington st....	Machinist.
Frank Hensman.....	24	Mar. 19, 1898..	".....	919 Ramsay st.....	Flyman.
Elias J. Kipp.....	41	Dec. 21, 1889..	".....	930 N. Washington st....	Carpenter.

No. 5 ENGINE COMPANY.—*Located on Ann Street, near Gough Street.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew W. German.....	49	June 1, 1872..	Captain.....	153 Milton ave.....	Painter.
Charles Rosenthal.....	41	Oct. 1, 1890..	Lieutenant.....	12 S. Ann st.....	Carpenter.
Frederick L. Nelson.....	51	Dec. 1, 1871..	Engineman.....	401 S. Ann st.....	Machinist.
John M. Ford.....	28	Dec. 15, 1897..	Asst. Engineman.....	1300 N. Chester st.....	Machinist.
Henry Murphy.....	47	Mar. 31, 1880..	Hostler.....	331 S. Ann st.....	Sugar refiner.
Henry R. Seippel.....	49	Dec. 1, 1874..	Pipeman.....	103 S. Ann st.....	Barber.
William B. Baker.....	41	June 17, 1882..	".....	208 S. Ann st.....	Brass finisher.
John F. Bilson.....	35	June 20, 1892..	".....	2000 E. Lombard st.....	Painter.
Anthony Schoepplein... 43	Mar. 24, 1891..	".....	".....	309 S. Regester st.....	Cooper.
Joseph Nelson.....	29	Mar. 1, 1895..	".....	614 S. Chapel st.....	Laborer.
Joseph G. Smith.....	36	Mar. 1, 1895..	".....	1925 Fairmont ave.....	Mill hand.

No. 6 ENGINE COMPANY.—*Located corner of Gay and Ensor Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Smith.....	41	May 12, 1890.	Captain.....	903 Columbia ave.....	Plumber.
Lawrence Blake.....	52	April 1, 1871.	Lieutenant.....	1513 Aisquith st.....	Painter.
Matthew Mulligan.....	60	Oct. 8, 1870.	Engineman.....	1027 Valley st.....	Machinist.
Frank Huart.....	27	April 21, 1896.	Asst Engineeman.	1804 E. Townsend st....	Machinist.
Andrew Albert.....	35	April 6, 1895.	Hostler.....	935 N. Castle st.....	Driver.
George Sykes.....	38	May 6, 1892.	Pipeman.....	725 Ensor st.....	Collarmaker.
Isaac Cuddy.....	29	Dec. 2, 1893.	".....	806 N. Central ave.....	Carpenter.
William McKay Morrow.	30	May 14, 1895.	".....	1309 Ashland ave.....	Paper carrier.
John T. Gordon.....	26	Aug. 10, 1895.	".....	241 Patterson Park ave.	Soap presser.
Frederick Kaufman.....	26	Sept. 7, 1895.	".....	817 N. Wolfe st.....	Carriagesmith.
Gustave Miller.....	27	Mar. 1, 1895.	".....	507 N. Bond st.....	Driver.
Charles Hesse.....	30	Nov. 5, 1897.	".....	1126 E. Lombard st.....	Shoemaker.

No. 7 ENGINE COMPANY.—*Located corner Ensor Street and Druid Hill Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Samuel R. Watkins.....	44	July 26, 1891.	Captain.....	1 Polk st.....	Sailmaker.
William H. Perrine.....	31	Dec. 11, 1896.	Lieutenant.....	117 Proctor st.....	Salesman.
Samuel W. Stansbury....	19	Dec. 1, 1884.	Engineman.....	1929 W. Baltimore st....	Machinist.
Frank R. Nehru.....	34	June 6, 1890.	Asst Engineeman.	928 Argyle ave.....	Machinist.
Harman Schiminger.....	44	April 1, 1890.	Hostler.....	124 Fremont st.....	Hostler.
Charles A. Soistman.....	45	April 1, 1890.	Pipeman.....	602 Bradley st.....	Drummaker.
George Schneider.....	30	Oct. 15, 1892.	".....	907 Madison ave.....	Gas fitter.
Johu Weinkamp.....	32	April 14, 1891.	".....	655 Mulberry st.....	Cigarmaker.
William A. Hall.....	34	Mar. 1, 1895.	".....	711 Warner st.....	Marble cutter.
Samuel Seymour.....	38	Dec. 7, 1885.	".....	829 E. Fort ave.....	Cannaker.
Charles H. Baker.....	46	April 1, 1889.	".....	1928 Monroe st.....	Scale maker.

No. 8 ENGINE COMPANY.—*Located on Mulberry street, near Arlington avenue.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Wm. J. Stewart.....	47	Mar. 26, 1875..	Captain.....	424 N. Arlington ave. . .	Timmer.
John W. Cook.....	37	May 7, 1893..	Lieutenant	637 Mosher st.....	Baker.
Chas. E. Freeburger..	50	June 1, 1875..	Engineman	1202 W. Franklin st.....	Machinist.
Wm. F. Awalt.....	37	April 1, 1890..	Asst. Engineman.	312 N. Poppleton st.....	Machinist.
James McGlennen . .	36	Aug. 31, 1889..	Hostler.....	263 N. Schroeder st.....	Moulder.
Greenberry Chapman..	66	Mar. 1, 1871..	Pipeman	954 W. Franklin st. . . .	Shoemaker.
Chas. Airey.....	46	Oct. 11, 1883..	"	1010 W. Saratoga st.....	Cigar-maker.
Thomas W. Jessop.....	38	Mar. 1, 1895..	"	320 N. Schroeder st.....	Moulder.
William Eckert.....	40	April 15, 1887..	"	1033 W. Mulberry st.....	Brush-maker.
James Meice.....	41	Sept. 27, 1897..	"	120 N. Poppleton st.....	Driver.
Harry C. Showacre....	29	May 19, 1896..	"	2163 Calverton road.....	Carpenter.

No. 9 ENGINE COMPANY.—*Located on Madison street, east of Broadway.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles Betz.....	45	Sept. 4, 1885..	Captain	426 Colvin st.	Shoemaker.
John A. McKew.....	31	April 1, 1893..	Lieutenant	2042 E. Preston st.....	Machinist.
Daniel R. Rogers.....	52	Feb. 1, 1872..	Engineman	1033 McDonogh st.....	Machinist.
Charles A. Litchfield . .	25	Dec. 15, 1897..	Asst. Engineman.	217 S. Mount st.	Machinist.
Frisby Lloyd.....	38	Dec. 11, 1896..	Hostler.....	1031 N. Washington st... .	Cannemaker.
James McDevitt.....	56	Feb. 1, 1872..	Pipeman	803 N. Washington st. . .	Harnessmaker.
William H. Cuddy.....	41	June 29, 1888..	"	1515 E. Madison st.	Driver.
John Amend.....	38	Oct. 17, 1892..	"	2209 Jefferson st.....	Boxmaker.
Richard V. Pittinger... .	50	April 1, 1880..	"	1833 Jefferson st.....	Carpenter.
Frank G. Smith.....	25	April 1, 1897..	"	2126 E. Fayette st.....	Caul capper.
Albert Raine.....	26	Mar. 29, 1896..	"	1523 N. Spring st.....	Salesman.

No. 10 ENGINE COMPANY.—*Located on Columbia avenue, near Poppleton street.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry Stage.....	33	July 1, 1891..	Captain.....	1117 Bowen st.....	Moulder.
Albert A. Torney.....	31	May 11, 1897..	Lieutenant.....	127 Parkin st.....	Butcher.
John W. Walsh.....	19	Mar. 11, 1876..	Engineman.....	1115 W. Baltimore st.....	Machinist.
James Nugent.....	12	Oct. 1, 1884..	Asst. Engineman.....	417 S. Poppleton st.....	Machinist.
James T. Higdon.....	29	May 13, 1897..	Hostler.....	1121 Nanticoke st.....	Driver.
Justice G. Keilboltz.....	53	Dec. 1, 1871..	Pipeman.....	896 W. Lombard st.....	Mantle softer.
Henry Zachman.....	15	July 1, 1888..	".....	838 Woodward st.....	Cigarmaker.
John Eigenbrodt.....	37	Jan. 12, 1891..	".....	768 Columbia ave.....	Woodcarver.
Edward A. Ward.....	25	Mar. 15, 1895..	".....	1515 Battery ave.....	Driver.
Chas. L. Smoot.....	30	Oct. 15, 1896..	".....	19 N. Paca st.....	Blacksmith.
Thos. Kerr.....	35	Aug. 31, 1889..	".....	1111 Bowen st.....	Clerk.

No. 11 ENGINE COMPANY.—*Located on Eastern avenue, corner Patterson Park avenue.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Michael A. Lind.....	37	July 13, 1887..	Captain.....	505 S. Patterson Park av	Painter.
Thomas Flaherty.....	38	Jan. 29, 1892..	Lieutenant.....	311 S. Chester st.....	Pilot.
John Calder.....	52	Oct. 8, 1870..	Engineman.....	422 S. Patterson Park av	Machinist.
John Lindemann.....	51	April 7, 1889..	Asst. Engineman.....	2036 Bank st.....	Machinist.
Patrick H. Birthistle...	31	Feb. 11, 1893..	Hostler.....	1113 Stiles st.....	Driver.
John W. Barton.....	34	June 7, 1892..	Pipeman.....	22 N. Rose st.....	Moulder.
John F. Curry.....	30	July 15, 1894..	".....	511 S. Montford ave.....	Stovefinisher.
Albert H. Gier.....	44	April 1, 1879..	".....	1913 E. Lombard st.....	Painter.
Joshua H. Miller.....	42	Nov. 10, 1885..	".....	14 N. Curley st.....	Cigarmaker.
Philip Peacock.....	40	Mar. 1, 1895..	".....	608 S. Washington st....	Tinner.
George Shipley.....	41	Nov. 30, 1889..	".....	2236 Bank st.....	Gilder.

No. 12 ENGINE COMPANY.—*Located on Fort avenue, corner of Riverside avenue.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Paul Linde	32	Feb. 24, 1891..	Captain.	537 W. Dolphin st.	Cannaker.
Edw. C. Klessel	46	Feb. 11, 1882..	Lieutenant.	1442 Riverside ave.	Gilder.
Michael Lycett.	52	Dec. 15, 1872..	Engineman.	1512 Henry st.	Machinist.
William F. Walsh	36	May 19, 1893..	Asst. Engineman.	1616 S. Charles st.	"
Joseph W. Moon	48	Aug. 11, 1877..	Hostler.	436 E. Fort ave.	Driver.
Peter McGonigle	38	Jan. 14, 1890..	Pipeman.	1265 Riverside ave.	Cotton Inspector.
Charles L. Wheatley	39	Feb. 22, 1896..	"	1725 Covington st.	Boiler m'k'r help'r
Matthew Carroll	49	April 8, 1896..	"	1725 Covington st.	Laborer.
Joseph P. McKenna	28	Dec. 5, 1895..	"	14 Beverley st.	Hardwood fin'h'r.
John F. Moran.	37	Mar. 1, 1896..	"	1113 William st.	Moulder.
Charles T. Taylor	24	June 1, 1898..	"	1527 S. Charles st.	Machinist.

No. 13 ENGINE COMPANY.—*Located corner Fremont and Myrtle avenues.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Todd.	34	June 1, 1891..	Captain.	1128 N. Carrollton ave. ...	Laborer.
James Nolan	27	May 20, 1893..	Lieutenant.	232 N. Fremont ave.	Collarmaker.
John A. Bannan	57	Sept. 8, 1877..	Engineman.	1117 Biggs ave.	Machinist.
John W. Eckhart	31	Aug. 5, 1890..	Asst. Engineman.	317 E. Fort ave.	"
John F. Mackenzie	51	Feb. 8, 1889..	Hostler.	386 Waverley ave.	Car driver.
Wilbur Pearce	41	Oct. 5, 1883..	Pipeman.	1203 Winchester st.	Moulder.
Louis Buehler	24	Jan. 7, 1897..	"	Lake Montebello.	Blacksmith.
Frederick G. Beck	44	Feb. 1, 1889..	"	434 Wehage st.	Photographer.
Frederick W. Viehmeier	38	July 13, 1893..	"	652 W. Mulberry st.	Driver.
Clifton Hedley	26	April 8, 1897..	"	1826 Division st.	Painter.
Albert W. Schyne	32	Aug. 10, 1895..	"	642 Mosher st.	Driver.

No. 14 ENGINE COMPANY.

Located on Hollins Street, near Monroe Street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
J. F. Rupp.....	41	June 29, 1888..	Captain.....	118 S. Gilmer st.....	Plasterer.
W. C. D. Knight.....	30	July 10, 1891..	Lieutenant.....	2003 Hollins st.....	Driver.
John Gaffney.....	43	April 1, 1880..	Engineman.....	1925 Hollins st.....	Machinist.
C. P. Kuhn.....	52	Dec. 19, 1892..	Ass't Engine-man.	18 S. Monroe st.....	Machinist.
Joseph Lavender.....	51	Mar. 17, 1876..	Hostler.....	771 W. Mulberry st.....	Driver.
C. A. Orem.....	48	Sept. 2, 1880..	Pipeman.....	2915 Walbrook av., Annex	Painter.
Leonard Jessop.....	43	July 30, 1892..	".....	69 S. Monroe st.....	Plasterer.
G. D. Shanks.....	39	Dec. 13, 1896..	".....	1929 Hollins st.....	Shoemaker.
Herman Seeger.....	31	Dec. 2, 1897..	".....	1918 Frederick ave.....	Cigarmaker.
W. T. Musgrove.....	27	April 8, 1897..	".....	Wesley ave., Annex.....	Moulder.
W. J. Bateman.....	24	Nov. 1, 1897..	".....	225 President st.....	Varnisher.

No. 15 ENGINE COMPANY.—*Located on Lombard Street, between Eutaw and Howard Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James A. Campbell.....	34	Jan. 16, 1894..	Captain.....	525 N. Paca st.....	Stonecutter.
Michael J. Ready.....	29	May 30, 1896..	Lieutenant.....	528 N. Calvert st.....	Wood turner.
John M. Frederick.....	36	Sept. 8, 1888..	Lieutenant.....	1139 W. Cross st.....	Shoemaker.
John Conway.....	43	Mar. 1, 1883..	Engineman.....	909 Columbia av.....	Machinist.
John J. Cahill.....	34	Feb. 15, 1893..	Asst. Engine man	18 Parkin st.....	"
Edward R. McCullough..	41	May 29, 1895..	Asst. Engine man	7 N. Bond st.....	"
Mark Hill.....	46	April 1, 1890..	Hostler.....	1604 W. Franklin st....	Tinner.
Charles L. Schulte.....	40	Nov. 10, 1892..	Pipeman.....	432 Aisquith st.....	Butcher.
Frank J. Lavender.....	27	July 9, 1895..	".....	735½ W. Mulberry st....	Laborer.
August Lang.....	31	Nov. 18, 1893..	".....	818 S. Peter st.....	Cigarmaker.
John Kahl.....	29	Feb. 1, 1894..	".....	10 E. Hamburg st....	Driver.
William E. Stewart.....	29	Nov. 15, 1893..	".....	129 N. Front st.....	Iron moulder.
John A. Henneman.....	36	April 19, 1895..	".....	1819 Division st.....	Driver.
Ebenezer Pyle.....	32	May 26, 1896..	".....	105 S. Carey st.....	Clerk.
Charles P. Griffin.....	41	Dec. 15, 1896..	".....	1103 Carroll st.....	Salesman.
John J. Flynn.....	31	Oct. 1, 1897..	".....	242 S. Regester st.....	Stationery eng'r.
Charles A. Fraser.....	33	Mar. 28, 1898..	".....	1208 W. Lombard st....	Machinist.....
George L. Krausz.....	31	Dec. 15, 1897..	".....	1458 Patapsco st.....	Brushmaker.
George W. Stewart.....	24	Dec. 15, 1897..	".....	1141 S. Sharp st.....	Bottler.
Henry Ludwig.....	48	Mar. 11, 1892..	".....	865 Ramsay st.....	Boxmaker.....

No. 16 ENGINE COMPANY, FIRE-BOAT.—*Location, Commercial Wharf.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John B. Bortell.....	33	Sept. 7, 1888..	Captain.....	9 N. Bond st.....	Ship rigger.
Louis Harter.....	41	Dec. 19, 1892..	Lieutenant.....	227 S. Caroline st.....	Pile driver.
Wm. C. Stallings.....	50	Dec. 28, 1891..	Pilot.....	309 S. Ann st.....	Pilot.
Iverson J. Moon.....	44	Oct. 15, 1898..	".....	116 S. Chester st.....	"
Thomas H. Menshaw....	42	May 15, 1885..	Engineer.....	2204 E. Lombard st.....	Machinist.
William L. Sblsa.....	34	July 28, 1896..	Asst. Engineer.....	2127 E. Lombard st.....	Marine engineer.
Lawrence F. Rudolph....	25	Mar. 15, 1895..	".....	222 S. Chester st.....	Machinist.
James H. Hoey.....	51	July 15, 1891..	Stoker.....	218 S. Castle st.....	Stoker.
John Stanton.....	35	Mar. 15, 1895..	".....	2206 E. Lombard st.....	Boilermaker.
James G. Guy.....	30	Dec. 15, 1897..	".....	1929 E. Fayette st.....	Railroad fireman.
John T. Seabreeze.....	53	Feb. 5, 1892..	Pipeman.....	125 S. Ann st.....	Painter.
James N. Robb.....	22	May 26, 1898..	".....	2124 E. Lombard st.....	Laborer.

No. 17 ENGINE COMPANY.—*Located corner of Fort Avenue and Haubert Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Prenger.....	46	April 15, 1890..	Captain.....	1411 Hull st.....	Machinist.
Chas. E. Dewitt.....	48	May 1, 1885..	Lieutenant.....	2452 W. Baltimore st.....	Carpenter.
Thos. F. Sexton.....	44	July 1, 1888..	Engineer.....	109 W. Clement st.....	Machinist.
John L. Cranford.....	29	Feb. 15, 1893..	Asst. Engineer.....	1103 Harbert st.....	"
Casper Kraft.....	38	Dec. 9, 1892..	Hostler.....	1103 Riverside ave.....	Driver.
James Catterton.....	49	Oct. 23, 1886..	Pipeman.....	1600 William st.....	Painter.
John Moeller.....	34	Oct. 13, 1893..	".....	4330 E. Fort ave.....	Packer.
Thos. Voyce.....	38	April 1, 1890..	".....	529 E. Fort ave.....	Boilermaker.
Frank A. Kraft.....	28	July 7, 1891..	".....	1160 William st.....	Painter.
Peter Lohman.....	40	May 1, 1896..	".....	1515 Jackson st.....	Laborer.
Dan'l Vogelgesang.....	41	May 1, 1890..	".....	1425 Covington st.....	Cannemaker.
James J. Knox.....	38	Mar. 6, 1895..	".....	1418 Cooksie st.....	Laborer.

No. 18 ENGINE COMPANY.—*Located on Twenty-First Street, Near Maryland Avenue.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
John H. Morgan.....	48	July 1, 1873..	Captain	2360 Oak st.....	Paperhanger.
William H. Quiney.....	43	Feb. 4, 1893..	Lieutenant.....	402 E. North ave.....	Stone-cutter.
Thomas S. Brown.....	39	Aug. 1, 1886..	Engineman	122 W. 24th st.....	Machinist.
Elijah J. B. Moore.....	35	Mar. 1, 1895..	Ass't Engineman.	1306 Valley st.....	Machinist.
John W. Potts.....	41	June 1, 1888..	Hostler	2356 Oak st.....	Driver.
Robert H. Blatchley.....	28	Feb. 14, 1893..	Pipeman	2458 York road.....	Painter.
Michael J. Griffin.....	36	Feb. 1, 1893..	"	314 21st st.....	Hostler.
William C. McKenna.....	36	July 10, 1894..	"	420 W. 23d st.....	Cannemaker.
William J. McDonald....	31	Mar. 1, 1895..	"	205 W. 24th st.....	Tinner.
George U. McFadden.....	30	May 10, 1892..	"	3220 Cedar ave	Carpenter.
Thomas H. Sutton.....	28	Jan. 1, 1895..	"	2141 Barelay st	Motorman.
Joseph J. Presley.....	31	Feb. 14, 1893..	"	1420 Druid Hill ave.....	Car-driver.

No. 19 ENGINE COMPANY.—*Located Corner of North Avenue and Bond Street.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Benjamin Price.....	54	April 1, 1879..	Captain	2615 Atlantic ave.....	Coffee roaster.
George E. Croucher.....	36	Mar. 1, 1888..	Lieutenant.....	2012 E. North ave.....	Cannemaker.
John N. Bletzer.....	35	Jan. 26, 1889..	Engineman	722 S. Bond st.....	Machinist.
Jacob S. Corns.....	45	Mar. 1, 1895..	Ass't Engineman.	1812 N. Broadway.....	Machinist.
Michael J. Farley.....	36	April 26, 1889..	Hostler.....	1827 N. Bond st.....	Car-driver.
John F. Maguire.....	30	Feb. 7, 1893..	Pipeman	1843 N. Regester st.....	Shipping clerk.
Nicholas Barrett.....	31	June 25, 1895..	"	519 N. Exeter st.....	Horseshoer.
Charles C. Neilson.....	45	Dec. 29, 1877..	"	1622 N. Wolfe st.....	Bricklayer.
Harry F. Bodge.....	40	June 22, 1892..	"	1505 N. Washington st..	Hardw'd finish'r.
Martin Kirby.....	53	Feb. 1, 1883..	"	1837 N. Bond st.....	Trunkmaker.
Louis Lollman.....	38	Mar. 6, 1895..	"	1546 N. Gay st.....	Varnisher.
Solomon Uhlfelder.....	55	Feb. 1, 1872..	"	1641 E. Madison st.....	Huckster.

No. 20 ENGINE COMPANY.—*Located on West North Avenue, near Tenth Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George F. Kennard.....	32	Sept. 5, 1891..	Captain	3024 Northwest street....	Clerk.
William I. Johns.....	39	Aug. 3, 1888..	Lieutenant	1130 E. Lanvale street....	Bricklayer.
Thomas F. Sadler.....	37	Nov. 5, 1896..	Engineman.....	1319 Edmondson ave.....	Machinist.
George C. Lloyd.....	30	Feb. 29, 1892..	Asst. Engineman	1213 W. Cross street	"
John I. Buck.....	30	Dec. 12, 1897..	Hostler	1722 Eighth street.....	Bricklayer.
Philip Bowen.....	47	Mar. 19, 1877..	Pipeman	3022 Northwest street....	Cigarmaker.
Samuel W. Marker.....	47	April 15, 1880..	"	208 N. Arlington ave....	Carpenter.
Hugh P. Fox.....	40	July 8, 1892..	"	2911 Walbrook ave.....	Blacksmith.
Walter J. Woods.....	46	Mar. 26, 1897..	"	2814 W. Lanvale street....	Carpenter.
William J. Watkins.....	36	Aug. 2, 1895..	"	625 N. Payson street....	Cotton inspector.
Richard H. Hobson.....	35	Aug. 20, 1896..	"	1901 Braddish ave.....	Laborer.
William J. Couzens.....	38	Feb. 4, 1898..	"	1414 E. Lanvale street....	Collarmaker.

No. 21 ENGINE COMPANY.—*Located Corner Roland Avenue and Oliver Place.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Hoffman.....	51	April 1, 1879..	Captain	637 Pitcher street.....	Cannaker.
Wm. R. Bolgiano.....	38	April 28, 1898..	Lieutenant	6 E. Montgomery st.	Clerk.
J. H. Hedrick.....	34	Dec. 23, 1896..	Engineman.....	121 N. Patterson Plk. av.	Machinist.
T. S. Roberts.....	38	April 1, 1897..	Asst. Engineman	2203 Oak st.....	"
T. A. Wann.....	30	Mar. 9, 1897..	Hostler	508 Oliver Place.....	Motorman.
J. F. Schaefer.....	61	April 1, 1888..	Pipeman	719 W. Baltimore st	China packer.
J. L. Clarken.....	40	Aug. 1, 1888..	"	226 Hickory ave.....	Driver.
Burke Whitmore.....	23	June 4, 1897..	"	6010 Hickory ave.....	Laborer.
John Bell.....	41	Sept. 15, 1897..	"	3621 Chestnut ave.....	Porter.
Joseph Knight.....	39	Jan. 15, 1898..	"	1446 Battery ave.....	Boilermaker.
Howard Waite.....	23	Dec. 15, 1897..	"	2617 Maryland ave.....	Painter.
Robert E. Johns.....	35	Feb. 7, 1898..	"	1613 E. Lanvale st.....	Carpenter.

No. 1 HOOK AND LADDER COMPANY.—*Located on Harrison Street near Fayette Street.*

Name.	Rank	Date of Appointment.	Position.	Residence.	Former Occupation.
E. Louis Shipley.....	38	July 1, 1891..	Captain.....	1849 Druid Hill ave.....	Shoemaker.
Franklin A. Teal.....	26	Jan. 24, 1896..	Lieutenant.....	1206 Light st.....	Street paver.
George W. Haskell.....	53	April 22, 1876..	Tillerman.....	325 S. Ann st.....	Carpenter.
Harry A. Douchoo.....	30	Mar. 31, 1898..	Asst. Tillerman..	1419 E. Baltimore st.....	Cutter.
John T. Mulligan.....	38	Jan. 20, 1885..	Hostler.....	14 N. Front st.....	Driver.
Z. T. Seabreeze.....	50	April 1, 1890..	Ladderman.....	211 Gough st.....	"
Joseph H. Daly.....	46	Jan. 15, 1881..	".....	132 N. Exeter st.....	Stonecutter.
James P. Lyons.....	27	Mar. 1, 1895..	".....	735 E. Baltimore st.....	Horseshoer.
John R. Herr.....	27	Nov. 20, 1895..	".....	2113 Fairmount ave.....	Clothing cutter.
William G. Schultz.....	26	May 20, 1896..	".....	2011 Gough st.....	Boxmaker.
Robert T. Creamer.....	31	Mar. 9, 1897..	".....	597 N. Gay st.....	Carpenter.

No. 2. HOOK AND LADDER COMPANY.—*Located on Paca Street, near Fayette Street.*

Name.	Rank	Date of Appointment.	Position.	Residence.	Former Occupation.
Emil Heise.....	39	Mar. 1, 1890..	Captain.....	1208 Jackson st.....	Furniture packer.
John L. Emerson.....	30	Jan. 18, 1892..	Lieutenant.....	2406 Druid Hill ave.....	Painter.
Fredk. W. Johnston.....	29	May 1, 1894..	Tillerman.....	2125 W. Lexington st....	Carpenter.
George E. Forwalt.....	29	Jan. 17, 1897..	Asst. Tillerman..	1302 Lafayette ave.....	Fireman.
Thomas Montgomery.....	57	April 1, 1870..	Hostler.....	121 N. Paca st.....	Driver.
Wm. P. Burke.....	34	Mar. 1, 1895..	Ladderman.....	2020 Eastern ave.....	Boilermaker.
George J. Hamilton.....	23	Dec. 15, 1897..	".....	411 N. Howard st.....	Driver.
Q. A. G. Hughes.....	35	Mar. 4, 1897..	".....	1811 Fairmount ave.....	Freight handler.
Howard Travers.....	23	April 29, 1897..	".....	436 Roland ave.....	Laborer.
John W. Wittig.....	27	April 27, 1897..	".....	1705 Gough st.....	"
Joseph Daley.....	27	Mar. 27, 1897..	".....	571 Baker st.....	Driver.

No. 3 HOOK AND LADDER COMPANY.—*Located on South Ann Street, near Gough Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Foxwell.....	52	Jan. 1, 1871..	Captain.....	1911 Bank st.....	Shipwright.
Peter Nelson.....	40	Jan. 3, 1890..	Lieutenant.....	14 S. Ann st.....	Seaman.
John N. Downs.....	51	Jan. 1, 1871..	Tillerman.....	2121 Orleans st.....	Painter.
James F. Reilly.....	46	Nov. 13, 1871..	Asst. Tillerman..	1633 E. Lombard st.....	"
William Hasler.....	35	Mar. 31, 1893..	Hostler.....	1925 Canton ave.....	Hostler.
John McClellan.....	65	Jan. 1, 1871..	Ladderman.....	1814 Fairmount ave.....	Sailmaker.
Frederick Grouling.....	34	Dec. 26, 1892..	".....	2031 Canton ave.....	Laborer.
Christian Fitzberger...	28	Mar. 1, 1895..	".....	123 S. Caroline st.....	Chinapacker.
Michael E. Lynch.....	38	June 1, 1893..	".....	244 S. Regester st.....	Laborer.
T. Edward Buech.....	37	Sept. 12, 1896..	".....	2209 Gough st.....	Tinner.
Joseph Diggs.....	30	May 30, 1895..	".....	214 S. Castle st.....	Ironmoulder.
George E. Wellslager...	27	Dec. 15, 1897..	".....	214 N. Patterson Park av.	Shearcenter.

No. 4 HOOK AND LADDER COMPANY.—*Located on Biddle Street, near Druid Hill Avenue*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. Bilson.....	47	July 2, 1896..	Captain.....	19 E. Lanvale st.....	Plasterer.
Henry J. Carle.....	28	April 2, 1894..	Lieutenant.....	503 W. Franklin st.....	Electrotypist.
John J. Krue.....	39	Oct. 23, 1886..	Tillerman.....	415 W. Hoffman st.....	Shoemaker.
George E. Gill.....	40	May 6, 1891..	Asst. Tillerman..	1416 W. Lafayette ave...	Painter.
Andrew J. Connelly,	43	April 1, 1882..	Hostler.....	411 N. Pine st.....	Driver.
Charles Sapp.....	37	Feb. 14, 1893..	Ladderman.....	1418 W. Pratt st.....	Laborer.
Milton R. Quigley.....	34	Nov. 21, 1897..	".....	509 N. Pine st.....	Plumber.
Charles L. Wain.....	30	Dec. 9, 1897..	".....	1225 Madison ave.....	Driver.
James A. Nash.....	34	April 29, 1898..	".....	29 E. Fort ave.....	Ironmoulder.
Benjamin Goetzinger...	27	April 27, 1898..	".....	2209 Mulliken st.....	Driver.
William Schipferling...	25	June 10, 1898..	".....	249 Battery ave.....	Baker.
John B. Winters.....	26	Feb. 1, 1898..	".....	654 Pitcher st.....	Fireman.

No. 5 HOOK AND LADDER COMPANY.—*Located on Disquith Street, near Oliver Street.*

Name.	$\frac{\text{No.}}{\text{Age}}$	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert R. Perry.....	30	June 7, 1892..	Captain.....	2219 Orleans st.....	Ironmoulder.
Geo. E. McNeil.....	26	July 28, 1897..	Lieutenant.....	1306 Ashland ave.....	Stoker.
Peter B. Mullen.....	40	July 1, 1891..	Tillerman.....	1332 Hillman st.....	Painter.
Alex. McFaul.....	30	May 13, 1897..	Ass't Tillerman..	2021 Gough st.....	Carpenter.
William Quinn.....	49	April 1, 1887..	Hostler.....	1034 N. Eden st.....	Driver.
William Wiley.....	56	April 1, 1887..	Ladderman.....	1308 Harford ave.....	Cigarmaker.
James McCarron.....	28	Mar. 1, 1895..	"	2002 E. Chase st.....	Potter.
Fred. W. Harman.....	34	Aug. 31, 1892..	"	405 N. Spring st.....	Brassfinisher.
George F. Thompson...	46	April 1, 1892..	"	1019 Harford ave.....	Strawhatmaker.
Louis Herman.....	28	Oct. 1, 1897..	"	303 S. Caroline st.....	Machine hand.
George Hanauer.....	24	Dec. 17, 1897..	"	1805 E. Fayette st.....	Tinner.
James Radford.....	34	Mar. 9, 1897..	"	1712 Lanvale st.....	Driver.

No. 6 HOOK AND LADDER COMPANY.—*Located Northeast Corner Hanover and Ostend Streets.*

Name.	$\frac{\text{No.}}{\text{Age}}$	Date of Appointment.	Position.	Residence.	Former Occupation.
Thomas D. O'Keefe.....	33	July 1, 1888..	Captain.....	1343 S. Charles st.....	Driver.
George S. Koller.....	26	Oct. 11, 1897..	Act'g Lieutenant.	21 W. Ostend st.....	Railroad fireman.
James J. Gill.....	13	April 1, 1879..	Tillerman.....	8 E. West st.....	Moulder.
Amos G. Bramble.....	30	Mar. 1, 1895..	Asst. Tillerman..	1516 S. Charles st.....	Driver.
Louis Matthaël.....	34	Nov. 12, 1891..	Hostler.....	1419 Hanover st.....	"
Henry Toeffer.....	31	Feb. 11, 1893..	Ladderman.....	1422 Hanover st.....	Baker.
Charles F. Fay.....	41	Feb. 14, 1893..	"	21 E. Ostend st.....	Carpenter.
William Leonard.....	42	Feb. 23, 1894..	"	1116 Hanover st.....	Driver.
Joseph P. Neubert.....	46	Mar. 1, 1895..	"	1361 Andre st.....	Electrician.
Philip J. Kuell.....	40	April 25, 1896..	"	1426 S. Charles st.....	Driver.
William S. Fort.....	30	Feb. 8, 1898..	"	1329 Hanover st.....	Painter.
Joseph F. Squires.....	30	July 1, 1898..	"	17 S. Carey st.....	Plumber.

No. 7 HOOK AND LADDER COMPANY.—*Located at Waverly.*

Name.	$\frac{25}{50}$	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. McCormick..	39	May 19, 1889....	Hostler.....	505 Friendship lane.....	Car driver.

No. 8 HOOK AND LADDER COMPANY.—*Located on Braunsick Street, near Frederick Road.*

Name.	$\frac{25}{50}$	Date of Appointment.	Position.	Residence.	Former Occupation.
John L. Durham	35	May 5, 1889....	Hostler.....	137 Millington ave.....	Plumber.

No. 9 HOOK AND LADDER COMPANY.—*Located Corner Roland Avenue and Oliver Place.*

Name.	$\frac{25}{50}$	Date of Appointment.	Position.	Residence.	Former Occupation.
John W. Shaffer.....	32	Feb. 14, 1893....	Hostler.....	304 Elm ave.....	Moulder.

No. 10 HOOK AND LADDER COMPANY.—*Located on Lafayette Avenue, between Stricker and Gilmor Streets.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Malcolm W. Jordan...	29	July 25, 1891..	Captain	1026 N. Gilmor st.	Driver.
Henry C. Kabernagel...	39	April 17, 1896..	Lieutenant	1418 W. Lafayette ave.	Laborer.
William F. Beall.	37	April 1, 1887..	Tillerman.....	2858 W. Lafayette ave.	Cannaker.
John J. Purcell.....	28	April 21, 1896..	Asst. Tillerman..	2865 W. Lafayette ave.	Carpenter.
Cooper Elliott.....	46	Oct. 4, 1887..	Hostler	1318 E. Monument st.	Driver.
Charles E. Brown.....	30	Oct. 1, 1893..	Ladder man	1632 W. Lanvale st.	Laborer.
William H. Siebert...	36	Oct. 1, 1897..	"	3128 Elliott st.	Stevedore.
James A. DePuey.....	35	Oct. 1, 1897..	"	1931 W. Lanvale st.	Paperhanger.
Frank H. Carr.....	23	Dec. 8, 1897..	"	19 Penn st.	Steamfitter.
William T. Hughes.....	33	Feb. 4, 1898..	"	710 Blucher st.	Motorman.
Louis Moore.....	34	Feb. 21, 1898..	"	1505 W. Saratoga st.	Baker.
William A. Meushaw...	47	Nov. 8, 1885..	"	27 Riggs ave., ext'd....	Mariner.

No. 11 HOOK AND LADDER COMPANY.—*Located on Twenty-first Street, near Maryland Avenue.*

Name.	Rank.	Date of Appointment.	Position.	Residence.	Former Occupation.
Thomas J. Strahler....	39	Dec. 10, 1881..	Captain	1320 Ensor st.	Tinner.
Edward W. Steinacker..	38	June 1, 1888..	Lieutenant.....	2710 Huntingdon ave.	Hostler.
Frank A. Hansson.....	30	Dec. 13, 1892..	Tillerman.....	905 W. Mulberry st.	Blacksmith.
Edgar T. Beach.....	26	Aug. 4, 1897..	Asst. Tillerman..	203 W. Twenty-fourth st.	Steamfitter.
Charles E. Zimmerman.	30	Oct. 1, 1897..	Hostler.	517 Oliver Place.....	Hostler.
William White.....	53	April 1, 1868..	Ladder man	1101 Carrollton ave.	Carpenter.
William Darney	27	Feb. 18, 1898..	"	3 Mine Bank lane.....	"
Clarence Kirby.....	38	Dec. 12, 1896..	"	2442 Francis st.	"
Charles E. Edwards...	26	June 1, 1898..	"	1512 Pentland Place.....	Brakeman.
Guy S. Ellis.....	36	July 1, 1898..	"	345 S. Stricker st.	Ironfinisher.
George Evans.....	22	July 27, 1898..	"	922 E. Madison st.	Upholsterer.
Henry Heinze.....	32	Aug. 1, 1898..	"	706 N. Caroline st.	Shipping clerk.

No. 1 CHEMICAL ENGINE COMPANY.—*Located on Brunswick Street, near Frederick Road.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles L. Steinwedel...	30	Mar. 9, 1897..	Captain.....	13 Pulaski st.....	Laborer.
John A. Epp.....	36	Feb. 15, 1893..	Hostler.....	434 Frederick ave.....	Cabinetmaker.
Antone Yienger.....	31	July 23, 1889..	Pipeman.....	2210 Wilkens ave.....	Candy maker.

No. 2 CHEMICAL ENGINE COMPANY.—*Located on Mary Street, near Retreat Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James R. Merriken.....	36	Aug. 1, 1888..	Captain.....	3019 Pennsylvania ave....	Driver.
Christian Freyer.....	39	May 1, 1893..	Hostler.....	2013 Walbrook ave.....	Blacksmith.
John M. Gilleland.....	31	April 3, 1895..	Pipeman.....	1305 Fulton ave.....	Driver.

No. 3 CHEMICAL ENGINE COMPANY.—*Located at No. 20 Engine House, Walbrook.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James A. Clark.....	34	Aug. 25, 1891..	Captain.....	2456 York road.....	Car-driver.
James B. Kelley.....	41	April 1, 1887..	Hostler.....	1528 Division st.....	Driver.
Charles M. Johannes....	32	Jan. 25, 1895..	Pipeman.....	3013 Northwest st.....	Stonecutter.

No. 4 CHEMICAL ENGINE COMPANY.—*Located at Waverly.*

Name.	Age	Date of Appointment.	Position.	Residence.	Former Occupation.
Wm. H. Taylor.....	57	June 1, 1888..	Captain.....	3108 York road.....	Conveyancer.
Wm. Lamb.....	36	Aug. 7, 1891..	Hostler.....	156 Old York road.....	Car driver.
James Hart.....	42	June 17, 1890..	Pipeman.....	122 Old York road.....	Carpenter.

No. 5 CHEMICAL ENGINE COMPANY.—*Located at Homestead.*

Name.	Age	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert H. Dougherty...	41	Jan. 12, 1889..	Captain.....	414 Jefferson st., Annex..	Undertaker.
Ambrose Spangler.....	33	Nov. 26, 1895..	Hostler.....	37 Gorsuch ave., Annex.	Driver.
Geo. W. Fee.....	31	Dec. 24, 1897..	Pipeman.....	249 Jackson st., Annex...	Blacksmith.

No. 6 CHEMICAL ENGINE COMPANY.—*Located on Belair Avenue.*

Name.	Age	Date of Appointment.	Position.	Residence.	Former Occupation.
John J. Clancy.....	31	Oct. 2, 1897..	Captain.....	1626 Lamont ave.....	Cannaker.
Zachariah H. Foote.....	34	Feb. 26, 1892..	Hostler.....	68 Belair ave.....	Moulder.
John Sullivan.....	35	Dec. 8, 1890..	Pipeman.....	66 Belair ave.....	Painter.

No. 7 CHEMICAL ENGINE COMPANY.—*Located Corner Roland Avenue and Oliver Place.*

Name.	Age	Date of Appointment.	Position.	Residence.	Former Occupation.
James J. Reynolds.....	40	July 20, 1889..	Captain.....	431 Roland ave.....	Driver.
Edward E. Harp.....	26	Oct. 1, 1897..	Hostler.....	3106 Cedar ave.....	Lineman.
John L. Thomas.....	30	June 1, 1892..	Pipeman.....	295 Chestnut ave.....	Blacksmith.
John R. Miller.....	28	Mar. 1, 1895..	"	729 Third ave.....	Carpenter.

PROBATIONARY FIREMEN.

Name.	Age	Date of Appointment.	Company Assigned to.	Residence.	Former Occupation.
Marion L. Sunderland ..	23	Oct. 5, 1898..	No. 1 Engine Co.	614 S. Paca st.....	Driver.
Michael J. Kram.....	36	Dec. 28, 1898..	" 3 "	1104 E. Hoffman st.....	Cooper.
Harry Curran.....	27	Oct. 6, 1898..	" 4 "	1800 N. Caroline st.....	Driver.
Walter Filling.....	24	Oct. 5, 1898..	" 7 "	1126 Ridgely st.....	"
George W. Hughes.	35	Aug. 1, 1898..	" 9 "	104 Montford ave.....	Bricklayer.
Frank D. Dolan	30	Nov. 2, 1898..	" 10 "	768 Columbia ave.....	Moulder.
Joseph Barrett.....	22	Nov. 14, 1898..	" 11 "	1421 Clement st.....	Laborer.
J. M. L. Buckley.....	37	Oct. 5, 1898..	" 12 "	639 W. Barre st.....	Machinist.
William Thompson.....	37	Oct. 5, 1898..	" 13 "	652 W. Lexington st ..	Bricklayer.
Stephen Cosgrove.....	22	Oct. 6, 1898..	" 15 "	831 Woodward st.....	Printer.
Alpha T. Stover.....	24	Oct. 6, 1898..	" 15 "	517 Hickory ave.....	Driver.
August I. Walker.....	34	Oct. 8, 1898..	" 15 "	1504 W. Lafayette ave....	Plumber.
James O'Grady.....	24	Oct. 15, 1898..	" 15 "	919 Booth st	Iron-moulder.
Otto Leitke.....	25	Oct. 21, 1898..	" 15 "	2818 Hudson st.....	Laborer.
John Schutz.....	34	Sept. 7, 1898..	" 16 "	129 N. Port st.....	Machinist.
David Perlman.....	26	Oct. 6, 1898..	" 1 H. & L.....	36 S. High st.....	Tailor.
Henry Marks.....	25	Oct. 5, 1898..	" 2 "	402 E. Cross st.....	Laborer.
James H. Wentz.....	23	Oct. 1, 1898..	" 4 "	306 Parkin st.	Stonecutter.
George H. Mills.....	24	Oct. 19, 1898..	" 1 Chemical...	5 Brunswick st.....	Driver.
George W. Wanner.....	25	Oct. 5, 1898..	" 4 "	905 N. Gay st.....	Clerk.

REPORT
OF THE
Superintendent Fire-Alarm Telegraph.

1898.

REPORT.

To the Honorable Board of Fire Commissioners:

Herewith I submit the annual report of the Fire-alarm Telegraph for the year ending December 31, 1898.

I assumed the duties of Superintendent of Fire-alarm Telegraph on November 15 last, and consequently have not had sufficient time to entirely familiarize myself with the needs of the department, but such as to me appear urgent are herein incorporated.

The general condition of the apparatus, lines, etc., is good, and shows that improvement has been made during the year.

The overhauling of the overhead lines, begun last year, has been continued, with the very gratifying result that line troubles are being steadily diminished. There still remains some of this work to be done, and I expect to continue it until every pole route and circuit is put in the best possible condition.

A new box circuit (No. 31) was established during the year by moving seven fire-alarm boxes from No. 11 and No. 12 circuits, which circuits were overcrowded. The new circuit has lessened the liability to interference, and reduced the number of fire-boxes involved when either of the circuits get into trouble.

The work of removing the keyless doors has been completed, and all fire-alarm boxes are now provided with the glass key-guard doors, an improvement which has been generally commended.

All the Blake transmitters have been removed from the department telephones, and solid-back long distance transmitters substituted. While this change has made some improvement in the telephone service, much still remains to be done to make this branch of the service reliable and satisfactory. Without the tele-

phone the department would be most seriously handicapped, and I trust my recommendation looking to the improvement of this service, will receive the approval of the Board.

During the year thirty-five new fire-alarm boxes have been added to the service, numbered and located as follows:

- 148—Eastern and Central avenues.
- 178—Fairmount avenue and Patapsco street.
- 179—Fayette street and Milton street.
- 192—Eastern avenue and Chesapeake street.
- 226—Orleans and Forrest streets.
- 279—Jefferson street and Montford avenue.
- 289—Gutman and Montebello avenues.
- 318—Lexington and Little Sharp streets (duplicate).
- 374—Linden and North avenues.
- 375—Lafayette avenue and John street.
- 376—Eutaw Place and Robert street.
- 377—Lafayette and Maryland avenues.
- 378—Lafayette avenue and St. Paul street.
- 388—Callow avenue and Reservoir street.
- 445—Poppleton and Saratoga streets.
- 477—Harlem avenue and Monroe street.
- 479—Fulton avenue and Presbury street.
- 489—Lanvale and Payson streets.
- 528—Hanover and Conway streets,
- 537—Paca and Little Greene streets.
- 547—Hanover and Stockholm streets.
- 575—Lexington and Smallwood streets.
- 713—Druid Hill and Fulton avenues.
- 714—Ruskin street and Parkwood avenue.
- 715—Whitelock lane and Druid Hill avenue.
- 722—Hampden avenue and Twenty-seventh street.
- 723—Morling street and Conduit avenue.
- 729—Greenmount and Girard avenues.
- 732—Durham and Federal streets.
- 733—Washington and Eager streets.
- 734—Milton avenue and Preston street.
- 735—Broadway and Lanvale street.
- 736—Caroline and Townsend streets.
- 74—Old York road and Carroll avenue.
- 741—Gorsuch avenue and Republic street.

A new four-dial manual repeater has been received from the Gamewell Fire-alarm Telegraph Company and placed in service, and is giving entire satisfaction.

This addition to the central office apparatus places the Baltimore Fire-alarm Telegraph Department in the fore of modern fire-alarm offices, and will meet the requirements of this department for many years.

A much needed improvement has just been completed in establishing a new cross-connecting board in the cellar of the City Hall.

This board is designed to give ready and easy access to the wires of the department where they leave the underground cables and before they enter the switch board in the operating room, and will prove a valuable addition to the equipment.

On Sunday, December 4th, the city was visited by a violent wind and rain storm, which prostrated more than half of the circuits connected with the fire-alarm department.

Many of the wires were crossed with electric light and trolley wires, resulting in the burning out of many fire-alarm boxes, a number of engine house and tapper gongs; also two cable boxes were damaged by these currents, and had it not been for the protectors, with which they are provided, one or more of our underground cables would have been injured. By Tuesday night, December 6th, all the circuits were again in working order, and alarms were being received and transmitted in the usual manner, due to the energetic and loyal assistance given me by the employees of this department, for which I embrace this opportunity to tender them my thanks.

The greater part of the damage sustained during this storm was due to wires carrying currents of high voltage crossing the fire-alarm wires, which are not insulated. Had our wires been covered with a good insulation, much of the damage would have been averted, and this would indicate that it would not only be economy to reconstruct these lines with insulated wire, but that it would also greatly reduce the liability to interruptions to box circuits, during which the section of the city involved is left without fire protection.

To keep the service at its highest state of efficiency requires the constant inspection of every part of the plant; our present line force composed of one chief and four linemen is not more than sufficient to keep up with current work, and affords but little opportunity to do systematic inspection, nor is it large enough to meet an emergency. This force should be increased.

During the coming year I expect to increase the number of alarm circuits by reducing some of the longest and taking important companies off of those that now extend to the Annex. I also intend to begin a rearrangement of box circuits, whereby those serving the parts of the city where the underground cables have been laid will be separated from the overhead circuits, thus reducing interruptions to the minimum.

I recommend that a branch exchange switch board for the telephone service be installed, and that the telephone be separated from the independent call wire.

That bare wire circuits be converted into insulated wire circuits.

That an additional lineman and three telephone operators be employed.

ESTIMATE FOR 1899.

Salaries	\$19,000 00
Changing telephone service.....	3,500 00
Changing circuits.....	3,000 00
Material, extra labor, etc.....	6,500 00
Material, extra labor, etc., Annex.....	1,000 00
	<hr/>
	\$33,000 00

EMPLOYEES.

M. J. Dean.....	Operator.
W. F. Gettrust	"
John J. McCoy	"
H. C. Martin.....	"
C. C. Prince.....	"
W. H. Shuter.....	"
J. N. Smith.....	Chief Lineman.
Jas. W. Anderson.....	Lineman.
Thos. W. Glass.....	"
Robert Kain.....	"
N. C. Wolfe.....	"

Respectfully submitted.

FRANK G. BOYD, *Superintendent.*

$$\begin{array}{r} 675 \\ 12 \\ \hline 81.00 \end{array}$$

